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THE FLORA OF SUFFOLK;

A Topographical Enumeration of the Plants of the
County, showing the Results of former Observations
and of the most recent Researches,

BY

W. M. HIND, LL.D.,

RECTOR OF HONINGTON,

ASSISTED BY THE LATE

CHURCHILL BABINGTON, D.D., F.L.S.,

RECTOR OF COCKFIELD,

HON. FELLOW OF ST. JOHN'S COLLEGE, CAMBRIDGE,

WITH

AN INTRODUCTORY CHAPTER OF THE

GEOLOGY, CLIMATE AND METEOROLOGY OF
SUFFOLK,

BY

WHEELTON HIND, M.D., F.R.C.S.

“All Thy works shall praise Thee, O Lord.” *Psalm cxlv*, 10.

LONDON:

GURNEY AND JACKSON, SUCCESSORS TO VAN VOORST
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BIOLOGY

PREFACE.



ABOUT ten years ago, the late Dr. Babington, of Cockfield, suggested to me that I should unite with him in preparing a paper on the Botany of Suffolk. As I then understood him, it was to be confined to the lately-discovered and hitherto-doubtful Plants of the County. In fact, little more was to be attempted than a Supplement to the Flora of Suffolk, published in 1860.

It was agreed that the paper should not be printed until the Catalogue of the Birds of Suffolk, then in course of preparation, had been published. The time occupied in the incubation and fledging of the Birds, has been much longer than was expected; yet it has not been lost. It has increased the number and variety of the Birds, and has enabled them to appear in more perfect plumage. The delay has had a more beneficial effect as regards our present undertaking. It has enabled me to obtain a larger acquaintance with the Plants of Suffolk: it has introduced me to several eminent Botanists, who have given their attention to the local Flora, and who have willingly placed the results of their inquiries in my hands: it has afforded me opportunity to examine various Herbaria, in which were stored the harvests of other labourers in the Suffolk field. It has also made it possible to attempt the issue of a new Flora of Suffolk, which, with the restricted knowledge and scanty materials of ten years ago, would have been impossible.

Since the work was first taken in hand, each year has furnished its tale of new plants discovered, new correspondences opened, new sources of information revealed. There is no reason to suppose that any of these has been exhausted; but that, as time goes on, new materials will be furnished and new labourers found ready to carry out the work now in progress. The new Flora is therefore not to be regarded as a complete and exhaustive work. It is only a step onward. Much yet remains to

ii.

be gleaned in the fields of Suffolk; and I heartily wish good speed to those who are to follow and to bring the work to a more perfect issue.

The editing of this Flora has been much facilitated by the labours of Prof. Henslow and Mr. Skepper in their work of 1860. After its publication, Mr. Skepper seems to have been specially diligent in amassing new information. This was entered in his copy of the Flora, along with necessary corrections and emendations of that work. Through the kindness of his widow I have been permitted to copy his annotations; and also to examine his Herbarium, which is in advance of the Flora, as published. Where possible, I have endeavoured to trace the sources of information used in the older work; and I have given the original authorities for plants and localities, as being on the whole preferable. It would be ungenerous, on my part, not to acknowledge my indebtedness to Mr. Skepper for pointing my way to these original authorities. Frequent reference to his name (*E. Sk.* or *Sk. ms.*) throughout this work, will show how largely he has helped in raising the Botany of Suffolk towards its present standard. Though Prof. Henslow described himself as 'a consulting, but sleeping partner,' in the former Flora; he has left a legacy apart from that work, of which I have enjoyed the usufruct. Use has been made of his published list of Hitcham plants; of his Herbarium of Hitcham plants, now in the Ipswich Museum: and of a parcel of Hitcham plants, collected by his school children, and kindly sent to me by Prof. C. C. Babington.

To the late Dr. Babington, I am largely indebted for counsel and suggestion; also, for various sources of information, and for correspondents introduced by him. His own annotated copy of the Flora of Suffolk, that of Mr. W. Jordan, and a general Flora, having notes from the hand of the late Mrs. Parker, were placed by him at my disposal. Three Herbaria were examined by him for the purposes of this Flora, and through him I obtained knowledge of another, which has also been consulted. Of still greater value has been his help in procuring the loan of the History of Hawstead and the *Ms. Naturalists' Journal* of the late Sir John Cullum, Bart., which contains the record of his personal observations for a period of twelve years; also of Gillingwater's History of Bury, and various other works of importance.

Among those, whose kind sympathy and help I have enjoyed in preparing this work, very special thanks are due to the Rev. E. N.

Bloomfield. From his long and large acquaintance with Suffolk Botany, no one could speak with greater authority on the Flora of the County, or give more useful advice in cases of difficulty. It was, at one time, hoped that he would undertake the task which has fallen to me: whatsoever success I may have in its accomplishment, I shall largely owe to his kind counsel and assistance. Should, as it is hoped, a second volume be added to this work to include those cryptogamic families, which are for the present passed over, I confidently hope that the position of chief editor will be taken by Mr. Bloomfield.

To Mr. A. Bennett, of Croydon, I owe a debt of gratitude for his kind interest in this undertaking, and for his ready help in determining doubtful plants, and for supplying important information. The many ways in which he has given me assistance I cannot particularize, nor can I forget.

To my special friend the Rev. J. D. Gray, my frequent companion in field work, and to my friend the Rev. E. F. Linton, I tender my grateful thanks for their frequent communications of new plants, new localities, new facts. While building up splendid Herbaria and providing materials for Botanists of a future age; they are mindful that their heaped up stores can be made profitable to the students of to-day.

For the very special assistance afforded in the difficult genera of *Rubus* and *Rosa*, I am greatly indebted to the kindness of Prof. C. C. Babington and Mr. J. G. Baker. I gratefully acknowledge their constant readiness to assist in determining critical or doubtful species.

To Mr. G. E. Druce I return my very sincere thanks for new species found by him between Lakenheath and Bury. Also for his great kindness in directing my attention to old *Ms.* notes in a copy of Dillenius Ray in the Library of the Oxford Botanical Garden, and for supplying a copy of the same.

From many others I have received help and encouragement in various ways. I ask all such to accept my grateful thanks. To two of them I should make a more special acknowledgment; but they have gone to the home beyond, where human thanks and praise avail them not, and where earthly interests are unknown.

In the Flora, or Catalogue of Plants, the authority for the locality of each plant is placed after it in italics, except in the localities vouched for by myself. Where several localities, severed by a semi-colon (;), succeed each other, the authority following the latter or last of them belongs to all. A colon and dash (:—) separate localities supplied by different authorities.

In the Latin names of plants, a severer orthography than usual has been followed, by writing *i* and not *y* in such words as *silvaticus* and *silvestris*. *Epithymus* has been used instead of *Epithymum*, as the latter is incorrect in form. *Erigeron* and some other masculine nouns ending in *on*, occasionally mistaken as neuter, are correctly given. Care has been taken to prevent errors of another class creeping in. For such as ought to have been detected by me, and have not been, I must take the responsibility, *e.g.* mistakes in copying, through failure of memory, or false diagnosis of a species. Errors from wrong information, where it has been impossible to test it, must be charged to their authors. Occasionally doubts have been cleared up by establishing the genuineness of a doubtful species or locality, or the contrary. Where it has been impossible to clear up a doubt, a ? has been added. In several cases a plant has been rejected on the general improbability of its being found wild in Suffolk.

While the Flora has been in progress, a Herbarium of Suffolk has also been in course of preparation. It has not been possible to make it as complete as was desired. It, however, includes the larger part of the Phænogamia, Equisetaceæ, Filices, Marsiliaceæ, Lycopodiaceæ, and Characeæ of the County. As it is to be placed in the Ipswich Museum, soon after the publication of this work, it will be available for future students of Suffolk Botany; and it will serve as a test of the correctness, or the contrary, of the genera and species as set forth in this work.

The Geographical and Geological Introduction to the Flora is from the hand of my son, Wheelton Hind, M.D., &c. The Meteorological Tables appended to it are the results of observations by Mr. P. Grieve, of Bury St. Edmunds, and are taken from the West Suffolk Advertiser. For the Notes on the elevation of the surface of the County, I am indebted to the kind courtesy of the Rev. Barrington Mills, Rector of Lawshall.

An Introductory Chapter on the Distribution of Species in Suffolk is also prefixed. This had been undertaken by Dr. Babington, but owing to his infirm health he was unable to complete it. Using his materials I have endeavoured as far as in me lay to mould it on his own lines.

The following papers have been appended to the Flora :—

Comparative view of the Flora of Suffolk and the three neighbouring Counties, Essex, Cambridge and Norfolk ; with the distribution of the plants of Suffolk in its five Political Divisions. The comparison is arranged in a tabular form.

The Flora of Suffolk and the three adjoining Counties compared with the Flora of Holland. This paper was suggested and partially worked out by the late Dr. Babington. I had little more to do than to arrange his materials in order.

Notes on the Progress of Botanical Study in Suffolk.

In preparing the Flora I have necessarily been at a great disadvantage through my limited personal knowledge of the County to which it belongs. My connection with it goes no further back than to 1875. Nor was it until three years after that date that I attempted any thing beyond noting down the plants in my immediate neighbourhood. My distance from any large library for reference to works, bearing upon or illustrating the Botany of Suffolk, was a still greater hindrance. This will sufficiently account for meagreness of detail in the Notes on the Progress of Botany in Suffolk. I have not accomplished all that I desired, but I have done what I could. In conclusion I ask for a candid and unprejudiced reception of the Flora. It does not pretend to be an exhaustive account of the Botany of Suffolk ; but I trust it may be found to be a substantial addition to the records of the plants of this County.

Honington, July, 1889.

W. M. HIND.

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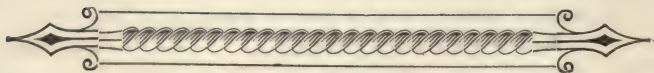
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INTRODUCTION.

I.—NATURAL FEATURES OF SUFFOLK.

UFFOLK is one of the Eastern Counties, and was formerly the Southern County of those comprised in the ancient Kingdom of East Anglia. It is the most Easterly County in England, its coast line extending a few miles further East than either of the neighbouring Counties.

Geographically it lies between the parallels 51 deg. 57 min. and 52 deg. 35 min. N. Lat., and between 24 min. and 1 deg. 45 min. E. Long., and contains an area of about 1500 square miles, or 944,000 acres, having the shape of an irregular trapezium; the coast line being about 50 miles in length, the greatest breadth from East to West about 56 miles, and from North to South about 32 miles. It is bounded on the North by the County of Norfolk—the two Counties being separated by the River Waveney and Breydon Water in the Eastern half, and by the River Little Ouse in the Western. To the West lies Cambridgeshire, separated in the Northern half by the River Lark, being without a natural boundary further South. Essex lies along the whole Southern boundary, divided from it by the River Stour through nearly the whole of its extent. The whole of the Eastern boundary is washed by the German Ocean, and is cut up by numerous narrow and deep Estuaries, which almost treble the County's seaboard.

The County is well drained, most of the rivers flowing in an Easterly direction; but the Lark and Little Ouse, which drain the Western and North-western Divisions, have a North-westerly course, ultimately reaching the sea at the Wash. The watersheds of the Northern portion of the County are two—one possessing a North-westerly and the other a North-easterly trend; but in the South the watershed has a South-easterly direction. The chief rivers are—the Stour, which rises in the South-western part of the County, and flowing along the Southern boundary, becomes a tidal estuary at Catawade,

and, joining that of the Orwell, reaches the sea at Harwich. It receives the Boxford River, the Brett, and other small streams. The Gipping rises near Wetherden, and flows by Stowmarket, Needham Market and Bramford to Ipswich, where it enters the tidal estuary of the Orwell. The Deben rises N. of Debenham and flows S.E. to Woodbridge, where it becomes a tidal estuary, and receives a few miles further South the Fynn, which rises N. of Witnesham and enters the sea at Bawdsey, having a bar at its mouth. The Butley rises S.E. of Rendlesham, and flows into the estuary of the Ore. The Ore rises near Saxted, and flows Eastward to Aldeburgh, where it is turned suddenly S. by a band of shingle, and reaches the sea at Hollesley Bay 10 miles below. It receives the Alde, which rises near Dennington, and several small streams. The Hundred River rises near Knoddishall, and flows E. into the sea N. of Aldeburgh. The Minsmere rises S.W. of Ubbeston, and enters the sea N. of Sizewell. The Blythe rises near Laxfield, and flows E. into the sea at Southwold. The Waveney, forming a part of the Northern boundary, rises near Redgrave at Lopham Ford, and flows Eastward to Burgh Castle, where it enters Breydon Water. The Little Ouse rises near the source of the Waveney, and flows Westward, forming the Western part of the Northern boundary. At Euston it receives the waters of the Upper Ouse, which rises near Woolpit, and flows N. through Ixworth; at Thetford it is joined by the Thet flowing from the N.E. The Lark rises on the table-lands of Lawshall, flows through Bury St. Edmunds and Mildenhall, near which place it becomes the County boundary for a short distance.

All the Suffolk rivers have slow currents and are shallow streams, with here and there deep holes: but the natural drainage is much hindered by the formation of dams, the waters being banked up for mills and factories. Large pieces of brackish water called Broads are found in the N.E. part of the County, as Breydon Water, Lake Lothing and Thorpe Mere. Breydon Water is a magnificent tidal lake of 1200 acres, 5 miles long, $\frac{3}{4}$ miles broad; the deep water channel of the Waveney passing through it is comparatively narrow. The Yare also flows into this water, which, before entering the sea, narrows near Yarmouth to a small tidal estuary. Lake Lothing is now a tidal lake 2 miles long, separated from Oulton Broad by a lock. As late as June, 1831, both these pieces of water were connected with the Sea at Lowestoft. Oulton Broad also communicates by a narrowed portion with the

Waveney and now consists of fresh water, and occupies 110 acres; it is surrounded by marshes:

Thorpe Mere occupies an area of 1000 acres, and is divided into two parts by a wall of earth. The fresh water lakes and broads are few and of small extent, and are nearly all in East Suffolk. At Fritton is a well-wooded lake of over 500 acres, but Barnby, Easton, Benacre, Covehithe and Dunwich Broad's are all small. Bosmere is about 8 acres in extent, and Rushmere, near the Deben, is of small area. At Holbrooke and Tattingstone are ornamental lakes of a few acres each in extent. The lakes of West Suffolk have most of them been artificially enlarged. The largest is Ampton and Livermere, 2 miles long, 75 acres in extent and there is one at Redgrave of 46 acres. Small pieces of water occur at Culford, Fornham and Drinkstone. Barton Mere, near Pakenham, extends over 12 acres; Broadmere and Cornard Mere are very small.

Suffolk is very flat: no rocks occur and the hills are few and inconsiderable. A somewhat hilly district, known as Westleton Walks, extends inland from the Dunwich Cliffs towards Theberton and Middleton. The hills are irregular in form with winding valleys, and are clothed with ling, brake and furze. A range of low hills and grassy denes extends from Lowestoft towards Yarmouth, while the hills of Pakefield and Kessingland trend Southward to Sole Bay and Easton Broad. The highest ground in the County is in the neighbourhood of Lawshall; the flattest in the neighbourhood of the Lark and Little Ouse and between Beccles and Oulton Broad.

On the coast is much sand and shingle; especially at Orford Beach, the acreage of which is probably larger than anything else of the kind on the East Coast. There are mud flats and salt marshes, especially near Aldeburgh.

The Coast is remarkable for the extent of its tidal estuaries and its bays, havens and creeks; but there are no cliffs of any great height; at Felixstowe and Bawdsey the cliffs are of Red Crag resting on clay, but those at Dunwich are of more recent beds.

The character of the surface is much varied and consists of undulating fields and flat plains, the fields are sometimes very large and

surrounded by hedges, which were formerly higher than now. The soils also vary from a stiff clay loam to fine sand, and may be classified as :—

“Heavy Lands. Stiff loam, yellow clay; blue clayey loam.

Mixed Lands. Common mixed soil, rich deep mould, fen lands, rich marshes.

Light Lands. Eastern and north-western sand, and poor chalk of West Suffolk.” (White’s Suffolk.)

Along the banks of the rivers and in the different fens and marshes are rich strips of alluvial deposit.

More than two-thirds of the County would come under the term heavy lands, and the area occupied would be roughly bounded on the North by the Waveney from Hopton (West) to Beccles, on the East by a line passing from Beccles, Halesworth, Hoo, Grundisburgh, Needham Market, Hadleigh to Melford; on the South by the County boundary as far East as Melford; and on the West by a line running from Hopton, (West) to Haughley via Ixworth, from which point it turns West to the borders of Cambridgeshire.

The mixed lands are found, one portion East of the heavy lands, between the Orwell and the Stour, and again further North between Halesworth, Beccles, Southwold, and Yarmouth; the other tract lying West of the heavy lands and extending from Hopton (Westward) to Euston and Newmarket.

The sandy or light lands are in the extreme East and North-west of the County. The Eastern portion extends from the Deben to Southwold, bounded on the West by a line from Woodbridge to Saxmundham. The North-west portion intervenes between the fens and the mixed soils, and is known as the Breck district, being situated between Thetford and Mildenhall. There are various heaths and barren tracts of rough ground, principally used for sheep-walks and rabbit-warrens. A more or less broken belt of heath and furze extends near the coast from Lowestoft to the Orwell, where *Calluna*, *Erica*, *tetralix*, and *cinerea*, grow in more or less abundance. Occasionally it is intersected by arable or marshy land, or runs down to the coast. In many places, however, it is separated from the coast by marshes protected from the sea by embankments, locally called sea-walls, except where low sand-hills form a natural protection, as at Minsmere Sluice to Sizewell.

Other small heaths are found at Gorleston, Belton and Hopton, between Yarmouth and Lowestoft. The large tract of loose sand lying upon the chalk in the N.W. part of the County, known as the Breck district, is a peculiar feature, and its extent may be fairly estimated by the unshaded portion of the map published by Morris in connection with his *Gazeteer*. Large tracts of it have never probably been cultivated; such portions as were broken up by the plough were called Brecks—hence the name of the district. Fir plantations have been introduced, and more land is being cultivated, not only rye as formerly, but barley and even wheat are now grown. Hedges are few and far between, and consist at times of fir, and there is very little water. Originally the district was much more open than at present.

From the fact of the presence of marine plants, insects and birds in this district, it has been surmised by some that an arm of the sea came up from the South Suffolk Coast to Thetford; Prof. Newton and the Rev. Dr. Hind think that an arm of the Wash reached Thetford from the West; the Wash itself extending as far as Lakenheath, Wangford and Brandon in the line of the Little Ouse, and at Mildenhall, Icklingham and Lackford in the course of the Lark. I do not see how the sea could have come from the East. It has been suggested that the marine plants found near Thetford, are attracted by the salts contained in the drift sands from the decomposition of the felspar, and that the insects are attracted by the plants and form in their turn a reason for the presence of seabirds; I cannot accept this theory in toto, ingenious though it be, for we do not find in inland districts, however rich in feldspathic rocks, indications of marine flora or fauna, unless there are also indications of comparatively recent proximity to some sea; and the chemical composition of the felspars differs considerably from that of sea water; the absence of chlorine and bromine in the rocks being conspicuous. Perhaps the insects and birds are attracted by the plants, but I think the plants must be considered as the lineal descendants of those which once, when a salt or brackish arm of the sea extended up to the neighbourhood of Thetford, flourished on its shores. Various similar examples may be found in this country; at Claverton Down, Somersetshire, still flourishes the Hairy Spurge; other specimens of which are to be found no nearer than the valley of the Loire; and on Steep Holme, a rocky islet in the Bristol Channel, is found the wild pœony whose habitat is now in the Pyrenees, a relic of the great ice age.

The woods and plantations in the County are entirely of modern growth, and although it may be said to be well-wooded, the timber is generally scattered about and is steadily diminishing in quantity. The largest woods are at Fakenham, the locality of Bloomfield's Fakenham Ghost, and at Staverton, and these are of great age; as are also woods near Needham Market and at Sudbourne.

Marshy land exists in no great quantity and much fen has quite disappeared. The valley of the Alde, however, is generally marshy, and there are some very extensive tracts, called the Lantern Marshes. Marsh lands extend also up the valleys near the coast, and along some of the rivers, and between Scole and Beccles is another tract of marsh but no fen land.

The fens once occupied a considerable area near Mildenhall, but they appear to have been drained early in this century, the peat remaining in a dry form; but there still remain patches at Tuddenham and other parishes on the banks of the Lark, at Redgrave, Hopton, Hinderclay, Coney Weston and Aldeburgh. Some years ago, there was a large district of quaking fen at Worlingham, North Cove and Barnby, which has been drained and converted into valuable pasture.

The principal heaths are near the sea-coast, situated in part upon the Red-crag area, none of them very large; but there is a succession of them nearly parallel to the coast, extending from Belton to within a few miles of Ipswich, and a few small ones are to be found in the North-western division. The commons have been mostly enclosed, but a few parishes, amongst which are Mellis and Wortham, have considerable portions still open.



II—AN OUTLINE OF THE GEOLOGY OF SUFFOLK.

IN the brief outline of the Geology of the County which follows, I have not attempted to discuss the different theories which have been brought forward to account for the various changes which produced the different beds; neither have I entered at length into the lists of fossils found in them, but have sought within the narrowest limits to give as many details as would be necessary, in a work devoted to another subject, to give the reader a general idea of the stratification of the beds which compose the surface of the County.

The Geological strata met with in the County of Suffolk belong to the Secondary and Tertiary groups; the former being represented by its upper member—the chalk; and the latter by many of its constituent members, some of which are almost peculiar to this County—I allude to the crag deposits, which are so strongly developed in it, and indeed only continue for a short distance into the neighbouring counties of Norfolk and Essex. In a tabular form the strata of Suffolk are in Geological succession:—

SECONDARY.		{	LOWER CHALK.	
			UPPER CHALK.	
TERTIARY.	EOCENE	{	Thanet Sands.	
			Reading Beds.	
			Oldhaven Beds.	
			London Clay.	
	MIOCENE	{	Remains of Boxstone Deposit at the base of the Crag.	
	PLIOCENE	{	Coralline Crag.	
			Upper Crag.	
PLEISTOCENE	{	Norfolk Forest Beds.		
		Glacial Beds	{	Lower Boulder Clay.
			Middle Drift Sands.	
	Upper Boulder Clay.			
	{	Post Glacial	{	Valley & Plateau Gravels
			Alluvium	
Peat				

The chalk extends all over the County, but is overlaid in some parts by the glacial deposits, and towards the S. and E. by the upper tertiary strata; but in the N. and W. it lies immediately below the subsoil, and disappears again below the fens, so that it forms a basin by dipping W. and S., in which lie the upper deposits, till at Harwich a well, which has been sunk to the chalk, passes through 1000 feet of tertiaries before the chalk is reached. This sinking, so close to the border of the County, will give a good idea of the thickness of superincumbent deposits in the South of the County.

The Lower Chalk crops up at West Row Ferry, near Mildenhall, and in a quarry at that place a good section is exposed, shewing a red band of 3ft. 5in. in thickness, and other well marked chalky strata containing fossils typical of this horizon *Holaster sub-globosus*, *Holaster trecensis*, *Belemnitella plena* and various species of *Brachiopoda*; layers of flint are conspicuously absent, a characteristic feature of the lower chalk series.

The Upper Chalk crops up at Claydon and Bramford, near Ipswich, and various exposures may be seen along the banks of the Gipping, Little Ouse and Lark. In the neighbourhood of Bury St. Edmunds are several chalk pits, from which I have obtained typical fossils, and stratified layers of flints are seen in almost every section. The most common fossils to be obtained from the chalk are various species of *Echinodermata*, *Belemnites*, *Terebratulæ* and other *Brachiopoda*, *Inocerami*, *Ostreæ*, *Sponges*, *Corals*, *Fish remains*, and of course the microscopic *Foraminifera*, whose cases make up so much of the chalk itself.

Along the Railway cutting, near Higham and Kennett, the outcrop of chalk is seen to have been much disturbed, the beds being ground up and shattered by glacial action for several feet in depth. From the chalk is derived the best part of the drinking water for the County, wells being sunk to various depths to obtain a good and permanent supply. The chalk itself is worked and burned for lime, which is used in various ways and as a dressing for the land.

In the S. and S.W., the chalk is immediately overlaid by the Eocene beds; at Sudbury, by the Thanet sands, which beds are also to be seen in the valleys of the Brett and Gipping. Above the Thanet sands are

the Reading beds, so-called from the locality where they are best developed—a clay deposit, with intercalated beds of sand and pebbles outcropping in brick pits at East Cornard, East Bergholt, and Brent Eleigh, along the valleys of the Stour and Brett, and in the neighbourhood of Ipswich at the Stoke, Trinity, and other brick-pits, and in a chalk-pit one mile N. of Bramford Station.

At Ipswich, in the bed of the river, are to be seen blocks of Greywether sandstone (Sarsen stones), which belong to a bed of fine light sand with pebbles, which constitutes the upper member of the Lower London Tertiaries, or the Oldhaven beds.

The London Clay, overlying the above, is best seen between the rivers Stour and Orwell : but it extends as far North as Orford, where it is 170 feet thick, and the valley of the Fynn. It is to be seen in various coast sections exposed at the base of the Red Crag, as at Bawdsey. It is a bluish mud of marine origin, rich in iron, containing in Suffolk few fossils except quantities of fish teeth and fossil wood, impregnated with sulphide of iron. At the base is a sandy bed with here and there a layer of flint pebbles. The mineral characters are peculiar. Scattered through the clay, but more distinctly bedded lower down, are concretionary nodules of argillaceo-calcareous material, often veined with crystalline carbonate or sulphate of lime, called septaria, occasionally containing impressions of fossils, which were quarried for the manufacture of cement. Crystals of Selenite (Calcic Sulphate) also occur—the congealed water of the quarrymen. At Kyson Quay, near Woodbridge, in 1839, was exposed a section of the lower beds, in which were found the teeth of *Lamna*, and bones of *Didelphys Colchesteri*, *Hyracotherium cuniculum*, and *Cheiroptera* and other animal remains. Near Ipswich have been obtained the fossil fruit of some palms, and quantities of fossil wood, the latter being very abundant on the sea-coast from Felixstowe to Bawdsey. These, if properly prepared, will often shew cellular structure when examined under the microscope ; and in some specimens, obtained from the shores of the Deben, I have been able to make out very plainly the bordered pits so characteristic of the *Coniferæ*. In some places the wood is converted into calcite by a deposition of carbonate of lime, and these under similar conditions will shew the perfect structure of the plant when magnified.

Ettinghausen and Gardner (Paleontograph, Soc. Pub.) state that the plants found fossil in this formation are represented by the fruit seeds and leaves of *Sequoia*, *Picris*, *Callitris*, *Salisburia*, *Musa*, *Nipa*, *Sabal*, *Chamærops*, *Quercus*, *Liquidambar*, *Petrophiloides*, *Laurus*, *Nyssa*, *Diospyros*, *Symplocos*, *Magnolia*, *Victoria*, *Hightea*, *Sapindus*, *Cupania*, *Eugenia*, *Eucalyptus* and *Amygdalus*, but most of these have been obtained from other parts of the deposit, and probably but few have been actually found in Suffolk. All the organic remains in this deposit give evidence of a warm and even tropical climate during the time that it was being deposited.

In many places a most interesting deposit is found immediately above the London clay, between it and the Coralline and Red Craggs, known as the Boxstone deposit, a name originally given by the quarrymen to certain stones, which, when broken, revealed a cavity, and in about 5 per cent. a fossil. This deposit varies in places, and contains foreign boulders of quartz, Archæan and Palæozoic rocks, brownish water worn sandstone (the boxstones) phosphatic nodules, rolled bones, and flints. At Foxhall, and in the various coprolite pits in the neighbourhood, can be seen good examples of this formation ; but in a few places the brown boxstones are found as slabs, not worn down and broken up into pieces, still enclosing fossils and hollow spaces. Many of the stones of this bed are encrusted with fossil barnacles (cirripedes), proof of their previous existence upon a sea bottom. Near Antwerp is found a deposit, the Diestien beds, which is older than the English crags and yet more recent than the London clay, with fossils similar to those contained in the boxstones, and on these grounds it is assumed that the deposit once continuous with the Diestien series, is the remnant, which has escaped the destructive agencies of water, and probably ice action ; the presence of foreign erratics pointing to a glacial epoch. The frequency with which the minerals and fossils of the London clay occur in the boxstone deposit, often included with phosphatic deposit, points to the enormous amount of denudation of the older beds, which took place before the newer strata were laid down. Mixed with the erratic blocks are the bones of various extinct Mammals, the remains being in some places so abundant as to merit the term "bone bed," specimens of the teeth of many land animals as the pig, rhinoceros, mastodon, tapir, deer, horse, bear, and bones of whales, which probably flourished during the miocene epoch, together with shark's teeth, and

other fossils derived from the London clay. The presence of remains of terrestrial animals furnishes evidence of the close proximity of dry land: and there are authorities who consider that this deposit itself represents an old dry land surface. It may be briefly noted that among the erratics found in the deposit are some of a nature unknown in the British Isles, which must therefore have been brought from a more distant land.

Next in stratigraphical order occur the interesting crag deposits, the older of which is the Coralline, and is found lying on the boxstone deposit; but where it is absent the Red Crag is then contiguous to that stratum. For a full account of these beds the reader may be referred to the papers of Prof. Prestwich, Ray, Lancaster, of Messrs. S. V. Wood, sen., and jun., the Memoirs of the Geological Survey, and many others.

The White, Coralline or Bryozoan Crag, is peculiar to the County of Suffolk, and is composed of a mass of calcareous sands mixed with shelly debris but very rich in perfect specimens and many polyzoa. It may be divided into three beds. the lowest, about 40ft. thick, consists of shelly sands; the middle of false-bedded stone, composed of broken shells and polyzoa, in some places hard enough to be used for building stone, about 30ft., the third, or uppermost bed, which is not always present, has the appearance of being composed of the debris of the lower beds. The whole depth of this deposit may be put down as varying from 40 to 60ft. After deposition, the land began to rise, and the Coralline crag was raised above the sea and broken up into islands and reefs by denudation.

The deposit originally was doubtless continuous from Tattingstone in the S.E., to Aldeburgh in the N., but now consists of a main body outcropping in the valley of the Alde at Orford, Gedgrave, Sudbourne, and Aldeburgh, with outliers at Sutton, Ramsholt, and Tattingstone. 316 species of fossil mollusca, of which 84 per cent. belong to living species, 140 species of Polyzoa, and 16 species of Echinodermata are found together with some crustacean, fish and mammalian remains. It is considered, from the fauna, that these beds were deposited in from 30 to 40 fathoms of water under a somewhat warmer climate than that which we now enjoy.

Under the term Upper Crag, will be described all the beds which intervene between the Coralline crag and the glacial deposits, which have been sub-divided into Red crag, Fluvio-marine crag, and Chillesford beds, there being no evidence of distinct succession, though the latter beds are distinctly more recent than part of the former; but there are reasons for supposing that the whole of these beds were deposited upon, or near, some shore in a comparatively short period of time, during which the sea was getting gradually more shallow. Certain it is that the fossils found in the upper beds denote a climate gradually becoming colder, and that the water was becoming brackish, and that an estuarine condition obtained; and perhaps locally the terms might be of use in denoting altering conditions; yet, if retained, they would seem to point out that these beds followed each other in distinct upward succession, and were not contemporaneous in any degree.

The Upper crag is found lying immediately above the Coralline; but where the latter is absent, it rests upon the London clay. It occupies a much more extensive area than the older crag, extending into Essex as far as Walton on the Naze Eastward; outliers are found at Sudbury, resting upon the Thanet sands; and deposits which are doubtfully referred to this formation, are found near Bardwell, Stanton. and in the Gipping valley Northwards—and this is the portion which has been named the Fluvio-marine crag. The deposit extends nearly up to the City of Norwich; this portion shewing from its fossils that it was deposited under a colder climate, and in shallower water (estuarine), than the portion further South.

The crag consists of beds of ferruginous sand and shelly debris, containing in places vast quantities of perfect shells, inclined at various angles. The whole series is between 30 and 40 feet in thickness. Where the crag is far below the surface, it is found to be of a blue colour, containing the iron as a protosalt; but most commonly it is red, due to the oxidation of that metal. In places no traces of shells are to be found, these having been removed by decalcification; elsewhere, casts are common, due to the deposit of iron oxide around them previous to decalcification. The beds are highly fossiliferous—92 per cent. of the fossil mollusca belonging to still living species; and several species of corals, cirripedes, echinodermata and polyzoa, a good percentage of which belong to still living forms, are also to be obtained, together

with piscine and mammalian remains. The mammalian remains being most frequent in that portion where the estuarine condition obtains. Good cliff exposures are to be seen at Bawdsey and Felixstowe; and inland sections are to be seen at Foxhall, Ramsholt, Waldringfield, Sutton, Bexley, and many other places along the banks of and between the rivers Deben and Orwell, where pits are sunk to obtain the phosphatic nodules. Between Thorpe and Sizewell, and at Aldeburgh Thorpe pit, are exposures of the littoral and estuarine deposits.

At Chillesford the crag beds are remarkable for the presence of characteristic Arctic forms of molluscan life. Here the crag is overlaid by a bed of loam passing gradually down into the crag below the Chillesford clay. This is the latest member of the upper crag, indicating a gradual subsidence of the land, and a deepening of the shallow sea of the upper crag proper. It is to be seen at various places in the neighbourhood, and in it was found almost complete the skeleton of a whale. This bed has its South limit with that of the crag at Walton on the Naze, but has been removed by denudation as far as Butley, and has not been found W. of Wantisden and Halesworth. During the crag period the climate was gradually becoming colder, with at first a gradual rise of the land; but towards the end the land began to subside once more.

This is the proper place to mention the so-called forest bed; which is to be seen at Cromer, and extends as far South as Kessingland, Southwold and Dunwich, underlying the glacial drifts. Various remains of trees, bones and teeth of extinct mammals have been gathered from these localities. A submerged forest is also to be found beneath the Orwell, which has yielded similar fossils, among the botanical finds are cones of Scotch and spruce fir, leaves of the white water lily, yellow pond lily, hornwort, blackthorn, bogbean, oak and hazel.

The glacial or drift beds may be divided into three series, Lower, Middle and Upper.

During the period which succeeded the already cooling climate of the crag deposits, cold became by degrees more intense, and the conditions common to Arctic regions obtained. Here and there are to be found local deposits of clay, which contain remains of typical Arctic plants—*Salix polaris*, *Betula nana* and *Hypnum turgescens*, which have

probably only travelled a short distance, and point to the proximity of an Arctic Flora. But before describing the drift itself, mention must be made of a bed which lies unconformably on the crags, and which is overlaid by the drift—the Westleton Beds, a deposit of gravel so-called from the locality where it is best developed. They may be also seen in the Valley of the Bure and at Easton Bavent. In the lower part of the beds is found that characteristic Northern fossil species—*Tellina balthica*.

From the evidence of scratches on rocks, and the presence of erratics, the whole of Northern Europe must have been in part covered by an extensive ice sheet, continuous with huge glaciers coming down from the mountains, and filling up the North and Irish Seas.

The several beds of drift point to as many separate glaciations interrupted by intervening periods of warmer climate, during which the ice sheet receded. The Lowest glacial bed of the Eastern Counties is known as the contorted drift, so well seen at Cromer, and which exhibits stratification with strange twistings in the beds. This bed is supposed to have been deposited at the bottom of a sea and to be the remains of a moraine terminating below its waters. The contortions have been caused by the grounding here and there of huge icebergs or of coast ice driven aground. The boulders in this drift are mostly chalk and flint, but fragments of Carboniferous and Oolite rocks with pieces of basalt, granite, quartzite, &c., are common. In places fragmentary marine shells are to be obtained. In Suffolk this bed consists of a yellowish brown brick earth, with occasional beds of sand and gravel.

Above the contorted, or lower drift beds, are beds of sand and gravel (middle drift sands), which correspond to a warm inter-glacial period. These beds occur here and there, more frequently in the Eastern part of the County, and are of great interest at Brandon, at which place Mr. Skertchley has found them to contain flint implements. These beds usually unfossiliferous yielded at Hopton Cliff, near Gorleston, shells of a Southern type, and similar specimens are stated to have been found near Halesworth and Newmarket.

The Great Chalky Boulder Clay, which represents the second great period of glaciation, is well developed in our County, both as regards the area of its extent and the thickness of the deposit, reaching near Bury St. Edmunds 100 feet in depth. It is composed of a dirty grey clay, full of pieces of chalk, with frequent boulders of Lias and Oolite

rocks, and fragments of basalt, quartz, granite and other igneous rocks. There is nowhere any approach to stratification, except in a few places at the extreme base of the deposit, which also has here and there irregular beds intercalated of gravel and brick earth. This deposit appears to be the moraine profonde of a great ice sheet, which covered the whole country as in Greenland, and which has left its debris in the place over which it once extended. The period, during which this deposit was laid down, was the most extreme of the Glacial Epoch, and it was followed by successive changes of warm interglacial periods and two other periods of glaciation; but at neither of these times did land ice extend as far South as Suffolk, and it has therefore left no trace in this County. The Great Chalky Boulder Clay is well-developed in both divisions of the County, and good sections are to be seen at Haughley and Thurston, and in the neighbourhood of Bury at Honington and Ixworth Thorpe. Economically it is used as a dressing for light lands, and, mixed with straw, is made into blocks, which baked in the sun, are used for rough building purposes.

The Post glacial beds consist of beds of plateau and river gravels. It will be noticed, on studying the drift sections further North, that the beds of interglacial or warmer epochs are chiefly gravel, derived from boulders and stones contained in the clays. They were probably formed in the following manner: When warm weather began, ice would melt rapidly, all the streams would be filled, and great floods would occur every year and overwhelm the country, washing out the stony constituents of the moraine deposit, and relaying them as beds of gravel. Intermorainic lakes would form, whose barriers suddenly giving way, would cause destructive floods. These beds are developed near Brandon, Santon Downham, Mildenhall, and the valley of the Lark, and are of great interest as containing relics of Palæolithic man.

The stones comprising these beds are not rounded like water-worn pebbles, but are angular, though somewhat blunted, so little have they been rolled that I have obtained several very beautiful flint casts of echinoderms and other fossils. In a few localities only is there evidence of regular stratification.

Mr. Skertchley describes the beds as having the following order :—

1. Brandon Beds. Interglacial, with Palæolithic Implements.
2. Great Chalky Boulder Clay.
3. Flood Gravels.
4. Palæolithic Gravel of Ancient Valleys.
5. " " Modern Valleys.

To his work on the Fenland I must refer those, who desire further information; it is only fair to say that his views about the age of the Brandon beds are not universally accepted. At Hoxne, many years ago, large quantities of flint implements were discovered in a bed of gravel of glacial age. Some of the gravels are fossiliferous; for example, near Lowestoft, on the North shore of Lake Lothing, is a gravel bed, whence I obtained several much rolled fragments of mammalian bones; near Stutton-on-Stour is a bed of post-glacial brick earth containing fresh water shells of species still living in England, together with some now only found in Asiatic and African waters, with mammalian remains.

The Fen beds proper, consist of beach and floor gravels which shew good stratification and vary from 2 to 30ft. in thickness; they are unfossiliferous. Above these beds is found the Peat, which is, of course, entirely of vegetable origin; and is not now in process of formation to any great extent; it contains remains of several successive buried forests. This large amount of peat points to a much colder and moister climate than now obtains, such conditions being necessary for its growth. In the Isle of Ely beds of shell marl are found in connection with the peat and, elsewhere nearer the Wash, the peat is overlaid by a large area of Silt.

The remains of neolithic man are to be found in abundance in the neighbourhood of Brandon and Mildenhall; Grime's graves, near Brandon, is probably a locality which was worked for flints by them wherewith to manufacture their weapons. More recent remains, Celtic, British and Roman, are to be found in various localities.

WHEELTON HIND.

III—CLIMATE.

THE vegetation of a country is necessarily dependent on its climate. The climate in like manner depends on its geographical position; that is to say, on its latitude and longitude; on its nearness to or distance from the sea; on its natural elevation above the sea-level; on the prevailing winds; on the average rainfall; and on the variation of the temperature in the seasons of the year. There are, however, circumstances connected with the cultivation of a country, such as the presence or absence of woods, the drainage of its fens and marshes—which influence the rainfall the evaporation, and even the amount of sunshine. It is not necessary to enter upon a special consideration of each of the above-mentioned elements of climate in reference to Suffolk. Its temperature is affected by its nearness to the sea, which would lower it in summer and raise it in winter; also by its slight elevation above the sea level, and likely by its small rainfall. The natural conditions are such as would tend to give a moderately equable temperature. The highest ground in the County is in the parish of Lawshall, and its elevation 349 feet. Very little of the surface rises above 200 feet. As a consequence the rivers are very sluggish, with an average fall of about two feet in a mile, and the drainage of the soil is necessarily slow. The mean temperature of the year is 48.4 Fahrenheit. The extreme variation from year to year since 1859 is 5.9; the warmest year was 1884, 50.7; and the coldest 1887, 44.8.

Mr. P. Grieve, of Bury St. Edmunds, in his article in the 'West Suffolk Advertiser' on the Meteorology of the year 1887, gives the following table of Temperature for the preceding 29 years, as observed by him at or near Bury. We gratefully acknowledge our indebtedness to him for this and the table of Rainfall, inserted further on. The heat of 1888 has been taken from Mr. Grieve's Meteorological Notes for 1888.

TABLE No. 1 shows the highest and lowest temperature with the dates on which they occurred, together with the mean or average temperatures of each of the last 29 years.

Year.	Max. temp. in degrees Fahr.		Min. temp. in degrees Fahr.		Mean temp.
1859	89	July 8.	5	December 18.	50.2
1860	76	July 15.	3	December 24.	47.0
1861	85	August 12.	0	January 7.	49.3
1862	80	May 6.	21	January 18.	49.9
1863	85	July 7.	22	March 30.	49.4
1864	85	July 23.	9	January 6.	47.8
1865	90	June 23.	12	February 14.	48.0
1866	88	July 13.	16	February 28	48.4
1867	87	August 14.	0	January 1.	48.4
1868	93	July 22.	23	Jan. 2, Nov. 6.	50.1
1869	87	June 7.	15	December 28.	49.0
1870	85	June 16.	1	December 24.	47.7
1871	86	August 12.	8	December 8.	47.7
1872	86	July 25.	23	March 20.	49.7
1873	86	July 23.	20	Dec. 11, 12.	47.8
1874	89	July 20.	6	December 31.	47.7
1875	84	August 16.	16	December 3.	48.7
1876	87	August 14.	20	February 11	49.4
1877	82	June 29, July 31.	21	February 28.	48.4
1878	87	June 26, July 16	10	December 13.	48.6
1879	79	July 30.	01	December 6.	45.7
1880	84	May 26.	14	January 27.	48.0
1881	88	July 5.	1	January 21, 25.	47.4
1882	77	August 6.	16	December 11.	48.5
1883	87	June 29.	15	March 9.	48.6
1884	91	August 11.	24	March 21.	50.7
1885	88	July 25.	12	December 11.	46.9
1886	87	July 6.	16	December 31.	48.35
1887	90	July 3, and 13.	07	January 1.	44.8
1888	87	June 26.	03	February 1.	

IV—RAINFALL.

THE RAINFALL.—As the Western winds, which bring with them the greater part of our British Rainfall, have to pass over the elevated land in the West of Britain before they reach our Eastern Counties, they do not so copiously discharge their refreshing showers on East Anglia as on other parts of our Island. That the rainfall of Suffolk should be comparatively small is, therefore, nothing strange. Observations have been made for a period of years in several stations of Suffolk of the annual rainfall. Of these we have taken one for West and another for East Suffolk, which, when compared, show a close similarity, with trifling local differences. The Table for West Suffolk is from Mr. Grieve's Article referred to above. It shows that during the 30 years last past, rain has fallen near Bury on the average of 156 days in

year; also that the average yearly fall has been 25.31 inches. The smallest rainfall during the period was in 1864, when there were only 89 days on which rain fell, and the total fall for the year was 16.44 inches. The largest number of wet days was 208 in 1877, with 27.58 inches of rain. The greatest rainfall in any year was in 1872, amounting to 34.64 inches for 200 wet days.

TABLE No. 2 shows the rainfall of each month during the last 30 years, the rainfall of each year, and the number of days in each year on which rain or snow fell. It also shows that the greatest amount of rain fell during the year 1872, being 34.64 inches, and fell during 200 days, while the smallest annual fall was that of 1864, which was 16.44 inches, and fell on 89 days. This table also shows that the greatest amount of rain has fallen during the months of October, while the months of April show the smallest rainfalls.

Yrs.	Jan.	Feb.	Mar.	Apr.	May	Jun.	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total for year.	Wet days
1859	0.68	1.04	1.30	2.49	3.32	3.40	3.37	1.72	2.29	3.34	1.56	2.66	27.17	124
1860	2.32	1.23	2.93	0.93	3.93	4.69	1.81	5.40	1.67	1.59	2.38	3.26	32.14	188
1861	0.79	2.51	1.77	0.77	1.00	2.62	2.64	0.52	1.16	1.03	3.47	1.23	19.51	134
1862	2.10	0.41	2.40	1.41	2.44	3.25	3.20	2.27	1.41	2.62	1.33	1.94	23.78	165
1863	2.36	0.52	0.83	0.72	0.99	2.69	0.76	1.91	2.99	2.67	2.75	1.20	20.39	111
1864	0.83	1.36	3.09	0.38	2.66	1.04	0.49	0.59	1.37	1.16	2.84	0.63	16.44	89
1865	2.77	2.46	2.16	0.28	1.96	1.20	4.01	3.94	0.04	7.22	1.59	0.68	28.31	128
1866	2.48	3.59	1.30	1.85	1.66	3.42	2.25	3.39	3.01	0.54	2.66	2.58	28.73	154
1867	2.73	1.82	1.47	3.17	2.65	0.73	4.49	1.49	2.63	2.48	0.95	2.66	27.27	153
1868	2.69	1.65	2.05	1.68	0.56	1.12	0.22	1.98	1.74	2.62	1.37	4.04	21.72	131
1869	2.08	2.49	1.87	1.23	3.23	1.71	0.46	2.25	3.58	2.78	2.48	4.84	29.00	151
1870	0.89	0.78	1.87	0.78	0.36	0.98	2.00	1.77	1.58	3.03	0.89	4.01	18.94	134
1871	1.08	2.07	1.47	3.70	1.63	3.30	2.93	0.29	4.40	1.40	1.52	0.99	24.78	141
1872	2.83	0.90	2.50	1.86	2.53	2.01	6.21	2.49	2.35	3.12	4.01	3.83	34.64	200
1873	1.91	1.88	1.66	1.31	2.07	2.50	2.23	2.19	2.72	3.57	2.00	0.69	24.73	149
1874	1.24	0.75	1.07	0.69	0.49	1.64	0.76	1.18	3.14	2.08	2.62	2.17	17.83	135
1875	2.34	1.21	0.42	1.05	2.15	2.83	5.29	0.88	2.67	3.24	5.26	1.84	29.18	152
1876	1.80	2.59	2.10	2.27	0.70	2.75	1.39	1.71	4.45	0.84	2.59	3.97	27.16	180
1877	2.95	3.05	2.62	2.29	1.54	1.53	3.11	2.76	1.40	1.34	2.77	2.22	27.58	208
1878	1.81	1.23	1.10	1.23	4.73	1.07	0.69	4.28	1.40	1.92	5.16	1.31	25.93	172
1879	1.57	3.23	0.84	2.68	2.86	4.06	5.09	4.12	3.71	1.11	1.47	0.52	31.26	187
1880	0.16	1.66	0.98	2.37	0.43	2.52	4.59	1.27	4.52	4.45	2.05	2.92	27.92	164
1881	0.93	2.83	1.48	1.61	1.09	1.50	2.68	4.82	3.18	2.69	1.98	3.36	28.15	184
1882	1.63	1.56	1.93	3.55	1.67	2.71	1.88	2.21	2.44	5.31	2.70	2.49	31.08	202
1883	2.00	3.35	1.86	1.34	1.18	2.08	4.05	1.47	4.24	2.83	3.24	2.40	30.04	187
1884	1.73	0.45	0.99	0.74	0.85	0.83	2.45	1.18	2.30	2.17	1.48	2.24	17.41	133
1885	2.39	2.24	1.09	1.23	3.71	5.83	0.63	1.44	4.40	4.84	2.89	0.98	26.67	163
1886	2.43	0.24	1.58	1.15	2.63	0.56	2.80	1.26	1.00	2.82	2.57	3.33	22.37	153
1887	1.75	0.60	1.90	1.26	1.95	0.19	1.04	1.51	2.02	2.09	2.26	1.22	17.79	141
1888	0.89	1.44	3.20	1.02	0.77	2.25	3.16	2.28	1.10	0.90	3.38	1.05	21.44	166
Total	54.16	51.14	51.83	47.04	57.74	62.01	75.68	64.57	74.91	77.80	74.22	68.26		

For the Rainfall of East Suffolk, we are indebted to the compiler of the following Table, which has been obligingly supplied for this work :—

RAINFALL as measured at Bishop's Hill, Ipswich, by G. A. BIDDELL, M. Inst. C.E. Diameter of gauge, 5'', 1 foot from ground, fairly exposed 104 feet above sea level.

Years as under	Jan.	Feb.	Mar.	Apr.	May	Jun.	July	Aug	Sep.	Oct	Nov.	Dec.	Yrly Rain-fall.
Gr'nwich Averages 50 years	2.12	1.44	1.47	1.66	2.07	2.05	2.40	2.49	2.25	2.82	2.23	1.76	24.76
1872	3.78	0.58	3.53	1.64	3.10	2.94	4.25	2.18	1.94	4.28	4.30	3.16	35.68
1873	2.00	1.44	1.52	0.80	1.67	2.01	1.63	1.10	2.27	2.09	1.60	0.44	18.57
1874	0.94	0.84	0.55	1.31	0.80	1.10	0.59	0.69	2.69	1.57	2.22	1.67	14.97
1875	1.83	0.96	0.51	1.14	3.38	2.80	4.42	0.74	2.44	3.51	4.65	1.29	27.67
1876	1.11	2.38	2.75	1.61	0.92	1.68	0.83	1.22	3.57	1.15	3.50	3.87	24.59
1877	3.51	1.83	2.64	1.96	1.73	0.69	3.35	2.70	0.88	1.43	3.80	2.29	26.81
1878	1.68	1.16	1.27	1.48	4.14	0.63	0.12	2.32	1.15	1.49	4.58	1.11	21.13
1879	2.07	3.19	1.05	2.46	2.01	3.69	4.25	3.41	3.84	0.67	1.77	0.60	29.01
1880	0.14	1.59	0.81	1.31	0.64	2.47	3.57	1.40	2.70	3.97	2.50	2.30	23.40
1881	1.20	2.53	1.81	1.10	0.82	2.06	1.56	3.69	2.24	3.05	1.64	3.30	25.00
1882	1.25	1.29	1.31	3.25	1.83	2.44	2.63	1.91	2.87	4.55	2.82	3.33	29.48
1883	1.85	2.54	1.08	0.91	1.74	2.22	2.79	0.65	2.68	2.21	2.99	1.59	23.25
1884	1.69	0.85	1.35	1.12	0.48	0.95	1.94	1.02	3.97	2.23	0.93	2.05	18.58
1885	1.79	2.19	1.20	1.49	2.83	1.10	1.21	0.91	5.08	4.45	2.72	1.00	25.97
1886	2.58	0.24	1.40	1.28	2.38	0.51	2.85	1.21	0.99	3.29	2.81	4.11	23.65
1887	1.50	0.51	1.50	1.33	1.76	0.44	1.47	1.25	2.28	2.78	3.40	1.24	19.46
Average	1.81	1.51	1.52	1.51	1.89	1.73	2.34	1.65	2.60	2.67	2.89	2.08	24.20

G. A. BIDDELL,

February 29th, 1888.

Comparing the Bury and Ipswich Tables for a term of 16 years, from 1872-87, we find that the rainfall at Ipswich in 1872, the wettest year of the period, was 1.04 inches in excess of that of Bury; that in 1874 the fall at Ipswich was only 14.97 inches, whereas at Bury it was nearly 3 inches more; where in two other years the total rainfall was less than 18 inches, while at Ipswich it was from 1 to 2 inches more. The average fall for the sixteen years at Ipswich is 24.20 inches, and at Bury 26.23 inches; thus West Suffolk receives on an average about two inches more rain than East Suffolk.

In the Rev. F. W. Galpin's Flowering Plants of Harleston, published in 1888, there is a record of the rainfall at Weybread in the North of Suffolk, from the observations of the Rev. J. H. White, Vicar of Weybread, taken at a point 152 feet above the sea-level. From this it appears that the average fall for the last 10 years has been 24.27 inches in that locality. Taking a period of ten years last past for the three localities, we have the following result:—

Average Rainfall from 1878 to 1887, at	{	Bury	25.86 inches.
		Ipswich	23.89 ,,
		Weybread	24.27 ,,

The yearly rainfall in Suffolk may fairly be taken at 24.67 inches, or nearly the same as that of Greenwich, 24.76 inches. This, as appears from Mr. Biddell's Table of the Mean Monthly Rainfall, will give a monthly supply of 202 tons or 45,000 gallons to the acre, or just over one gallon to the square foot. The yearly supply is 2,500 tons per acre, rather more than 10 cwt. per square yard, or nearly 13 gallons per square foot. The raising of this immense volume of water, and the precipitating it on the earth, for its fertilization and the supply of the natural and economical wants of his creatures, gives us a view of the vastness of God's working in providence, and of His infinite beneficence in supplying the wants of His dependent creatures through the never-ceasing operation of His Divine power in earth.



V—DISTRIBUTION OF SPECIES IN SUFFOLK.

INTRODUCTORY to the detailed enumeration of the plants of Suffolk, the following remarks, chiefly gathered from the notes of Dr. Babington, are offered. As the County contains no very marked natural divisions, it has been necessary to fall back on purely arbitrary districts. These have been found ready to hand, in the five nearly equal portions into which the County has been divided for political purposes. Something, if not much, may be said of the main botanical features of these parts. The North, East and South-East, taken in the whole of the sea-coast, which is very rich in maritime plants. The North also contains the principal broads and lakes. The North-West includes the Breck district, which largely consists of a light driving sand, lying open and used as rabbit warrens. It has a marked Flora, and furnishes a large proportion of the rarer plants of the County, among them various maritime plants, though at a distance from the coast. The South for the most part has a stiff clay soil, and its surface is more sharply undulating than in the other districts. As the Geology of the County is more fully treated in a separate paper, it is sufficient to mention that the County rests on a bed of chalk, occasionally near, and in other cases very much below, the surface; that the natural drainage is provided by three considerable boundary rivers and various other rivers, most of which have an Easterly fall, and that there are large tracts of marsh and fen, of which a considerable portion has been drained.

The plants, which more especially belong to East Anglia, will be found in a paper in which these are compared with those of Holland.

Having regard to the distribution of plants in Suffolk,—this is largely dependent on the nature of the soil, though in not a few cases plants seem to be indifferent to its influence, and flourish on nearly all soils alike. The effect of soil, or more truly, of soil washed by or impregnated with sea-water, is plainly seen on the coast, where the Flora is markedly distinct. Some of the more remarkable sea-side plants in Suffolk are,—*Brassica oleracea*; *Lepidium rudemale* (usually on chalky soil); *L. latifolium* (salt marshes); *Frankenia lœvis*; *Sagina maritima*; *Althœa officinalis* (salt marshes); *Lavatera arborea* (sea cliffs); *Geranium*.

purpureum (sea sand or shingle), *Tamarix anglica*; *Ulex nanus* & *Gallii*, (not necessarily maritime plants); *Trifolium maritimum*, (salt marshes); *T. glomeratum* & *suffocatum*, the former of which is also an inland plant; *Falcatula ornithopodioides*; *Vicia lutea*; *Lathyrus maritimus*, (shingle); *Sedum anglicum*, (not wholly maritime); *Tillæa muscosa*, (frequently inland); *Bupleurum tenuissimum*; *Fœniculum vulgare*, (occasionally inland); *Statice Limonium* & *bahusiensis*, (salt marshes); *Obione pedunculata* & *portulacoides*, (salt marshes); *Rumex maritimus*; *Euphorbia Paralias*; *Urtica pilulifera*, (formerly common in N.E., now nearly extinct); *Hippophae rhamnoides*; *Corynephorus canescens*, (sandy commons near the sea); *Poa bulbosa*, (on sand dunes); *Festuca uniglumis*; *Sclerochloa loliacea*, *maritima*, *Borreri* & *procumbens*. *Psamma arenaria* and *Elymus arenarius*, (on drifting sands); *Lepturus filiformis*.

The Breck district in the N.W. division, though distant from the coast, has a partially maritime Flora, the undoubted remnant of its former connection with the sea by the Wash. The following plants occur: *Sagina ciliata*; *Vicia lutea*; *Tillæa muscosa*; *Erythræa littoralis*; *Rumex maritimus*; *Carex arenaria*; *Phleum arenarium* and *Corynephorus canescens*.

The Breck district includes several tracts of chalky soil, causing a more varied Flora; and there are other portions of the N.W. district which partake of the characteristics of both soils, the land being light with a considerable admixture of chalk, varying more or less in the different localities. The following list includes the rarer plants of the drier soils of the N.W. division: *Thalictrum minus*; *Anemone Pulsatilla*; *Papaver hybridum*; *Fumaria densiflora*; *F. parviflora*; *F. Vaillantii*; *Teesdalia nudicaulis*; *Dianthus deltoides*; *Silene Otites*; *S. conica*; *Cerastium arvense*; *Alsine tenuifolia*; *Scleranthus perennis*; *Genista pilosa*; *Medicago silvestris*; *M. falcata*; *M. minima*; *Astragalus Hypoglottis*; *Hippocrepis comosa*; *Potentilla verna*; (the last five are chalk plants); *Herniaria glabra*; *Tillæa muscosa*; *Asperula cynanchica*, (on chalk); *Artemisia campestris*; *Hypochaeris maculata*, (on chalk); *Gentiana campestris*, (on chalk); *Veronica spicata*, (on chalk); *V. verna*; *V. triphyllos*; *Calamintha Nepeta*; *C. Acinos*; *Thesium humifusum*; *Orchis ustulata*; *Muscari racemosum*; *Carex ericetorum*; *Phleum Bæhmeri*; *Apera interrupta*; *Festuca ambigua*; *Lycopodium clavatum*; *Botrychium Lunaria*.

Other chalk plants are found in several parts of the County. Of these the most important are: *Clematis Vitalba*, (frequently on mixed soil); *Reseda lutea*; *Sison Amomum*, (also on other soils); *Centranthus ruber*; *Scabiosa Columbaria*; *Campanula glomerata*; *Chlora perfoliata*; *Orchis pyramidalis*; *Aceras anthropophora*; *Ophrys aranifera*; *Tulipa silvestris*; *Ceterach officinarum*.

A considerable area is occupied by the fens and marshes of Suffolk. The fens, with the exception of those on the Upper Waveney, are confined to the Northern portion of West Suffolk, and are contiguous to the Little Ouse, the Upper Ouse, and the Lark. In the parishes of Lackford, Mildenhall, and Lakenheath, they have been efficiently drained. The principal marshes are in East Suffolk, and near to the Lower Waveney, the Alde, and the Deben. To a great extent these also have been drained. There are also various lakes and broads in the County, the former principally in the North-West, and the latter chiefly in the North division. There is consequently a large number of aquatic and bog plants, of which the following are the most interesting: *Ranunculus Lingua*; *Nymphæa alba*; *Nuphar lutea*; *Drosera intermedia*; *D. Anglica*; *Viola palustris*; *Hypericum elodes*; *Lathyrus palustris*; *Sanguisorba officinalis*; *Comarum palustre*; *Myriophyllum alterniflorum*, (lakes and pools); *Lythrum Hyssopifolia*, (where water has stagnated); *Cicuta virosa*; *Sium latifolium*; *Peucedanum palustre*, (fens and marshes); *Senecio paludosus*, (extinct); *S. palustris*, (likely extinct); *Sonchus palustris*, (wet marshes); *Menyanthes trifoliata*, (fens); *Utricularia vulgaris*, *minor*, &c., (fen pools and marsh ditches); *Hottonia palustris*; *Myrica Gale*; *Stratiotes aloides*, (marsh ditches); *Hydrocharis Morsus-ranæ*; *Malaxis paludosa*, (fens); *Sturmia Læselii*, (fens); *Actinocarpus Damasonium*, (pools, extinct); *Sparganium minimum*, (streams); *Acorus Calamus*, (river banks); various *Potamogetones*, *Scirpi*, *Carices* and marsh grasses; *Lastrea Thelypteris*, *cristata* and *uliginosa*, (shady bogs); *Lycopodium inundatum*, (shallow pools); *Pilularia globulifera*.

Several plants in the County have their habitats on old walls and buildings, such as: *Cheiranthus Cheiri*; *Diplotaxis tenuifolia*; *Cardamine impatiens*; *Dianthus plumarius* and *Caryophyllus*; *Holosteum umbellatum*; *Sedum album*, *dasyphyllum* and *reflexum*; *Sempervivum tectorum*; *Galium anglicum*; *Centranthus ruber*; *Hieracium murorum*, (occasionally); *Antirrhinum majus*; *Linaria Cymbalaria*; *Parietaria diffusa*; *Asplenium Ruta-muraria*.

Several plants are only indirectly connected with the character of the soil, being parasitic on other plants. They are, notwithstanding, more or less, dependent on the peculiarity of the soil, as the plants on which they establish themselves are necessarily affected by it. The principal flowering parasites of Suffolk are *Viscum album*; and various species of *Cuscuta* and *Orobanche*.

A large portion of our County Flora is comprised in the plants of the heavy and mixed soils, either as laid down in grass or cultivated. On these the effect of man's hand is specially manifest; and the species occurring are in part aboriginal, and in part introduced, either intentionally or accidentally. Some heterogeneous examples are here given: *Myosurus minimus*; *Aquilegia vulgaris*; *Delphinium Ajacis*; *Arabis perfoliata*; *Silene noctiflora*; *Malva moschatu*; *Geranium pyrenaicum* and *rotundifolium*; *Linum perenne*; *Radiola millegrana*, (in damp spots); *Medicago maculatu*; *Trifolium ochroleucum*; *Lathyrus Aphaca* and *Nissolia*; *Chrysosplenium alternifolium* and *oppositifolium*, (on shady banks of streams); *Bupleurum rotundifolium*; *Anthemis arvensis*; *Senecio squalidus*; *Centaurea Calcitrapa* and *solstitialis*; *Crepis taraxacifolia*; *Pyrola rotundifolia*; *Verbascum Lychnitis* and *virgatum*; *Antirrhinum Orontium*; *Mentha silvestris*; *Primula elatior*; *Centunculus minimus*; *Polygonum Bistorta*; *Fritillaria Meleagris*; *Gagea lutea*; *Colchicum autumnale*; *Equisetum maximum*.

Certain plants require not alone a special soil for their full development; they also seek the shelter of a wood. Thus our woodlands, beside the taller growth of *Quercus*, *Fagus*, *Castanea*, *Carpinus*, *Betula* and their undergrowth, *Euonymus*, *Rhamnus*, *Cratægus*, *Cornus*, *Acer*, *Prunus* and *Corylus* have a flowery carpeting of herbaceous plants: such as *Anemone nemorosa*; *Ranunculus auricomus*; *Viola silvatica*; *Hypericum perforatum* and *hirsutum*; *Oxalis Acetosella*; *Lathyrus silvestris*; *Fragaria vesca*; *Geum urbanum* and *rivale*; *Circæa lutetiana*; *Sanicula europæa*; *Gnaphalium silvaticum*; *Hieracium vulgatum* and *umbellatum*; *Vinca minor*; *Myosotis silvatica*; *Melampyrum cristatum* and *pratense*; *Veronica Chamædrys* and *montana*; *Stachys Betonica*; *Teucrium Scorodonia*; *Primula vulgaris*; *Lysimachia nemorum*; *Mercurialis perennis*; *Orchis mascula*; *Habenaria chlorantha*; *Listera ovata*; *Neottia Nidus-avis*; *Epipactis latifolia*; *Narcissus Pseudo-narcissus*; *Convallaria majalis*; *Ruscus aculeatus*; *Endymion nutans*; *Luzula Forsteri* and *pilosa*;

Arum maculatum; *Carex pallescens* and *silvatica*; *Milium effusum*; *Calamagrostis epigeios*; *Melica uniflora*; *Lastrea Filix mas*, *dilatata* and *spinulosa*.

Various waifs and strays occur. In some cases their origin can be easily traced, as in several exotic plants at Nayland and Stoke, which, without doubt, are traceable to foreign seeds brought in with wheat from abroad for Nayland Mill. In other places, strange plants have evidently been introduced with foreign seed sown in the fields. Other plants frequently occur, where we can have no satisfactory account to give of their appearance. A gradual change is taking place in the Flora of the County. Several plants of the early part of this century are now no longer to be found, and others are becoming rarer every day. To meet this, there is a constant succession of foreign plants becoming naturalized, and almost undistinguishable from the aboriginal vegetation of the County. The *Anacharis Alsinastrum*, unknown in England fifty years ago, is as fully established as a British plant as if it could claim a descent of thousands of years. *Veronica Buxbaumii* is now to be found in all the corn-fields of the country; yet many of us can look back to the time when its claims to notice were being advocated by Borrer and others. There is a system of compensation in Providence, which makes good our losses, supplying new occupants suited to the changed condition of things, where others had been forced to retire from the pressure of adverse surroundings. The change, however, is so slow, that there is no reason to fear that the distribution of plants in Britain will be greatly modified in the course of succeeding centuries.



THE FLORA.

J. G. FENN,


(THE PRINTER OF THIS BOOK),

GLEBE STREET, STOKE-UPON-TRENT.



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PLAN OF THE FLORA.

S introductory to the Systematic Arrangement of the Genera and Species comprised in the Flora of Suffolk, two lists are prefixed. The former gives an account of the books, Herbaria, and other chief authorities consulted and referred to in the Flora. The latter contains the names of the principal persons who have furnished materials for compiling the work, or, who are referred to by preceding authors as vouchers for various plants and localities.

The arrangement, followed in the classification of the Flowering Plants, Ferns, Fern Allies and Characeæ of Suffolk, is that given in the 8th edition of Professor Babington's Manual. Other authorities have been consulted and occasionally followed, as in the Genus *Rosa*, where Mr. J. G. Baker's latest views have been accepted, and in Characeæ, which is according to the arrangement of Messrs. Grove.

I. The Species are arranged in order under a general heading of the Genus. Each Species preceded by the initial of the Genus is placed in the first line, printed in heavy type, in Latin, as given in the Manual. This is occasionally followed by a Synonym from Hooker's Student's Flora, 3rd Ed.; the London Catalogue, 8th Ed., or other authority, printed in Italics. An English name is, in most cases, added, also in Italics.

II. The second line of the description gives the pages in the Manual and Student's Flora, where a detailed account of the species is given. This is usually followed by a similar reference to the page in Henslow and Skepper's Flora of Suffolk, and, where possible, to other local works connected with the Botany of the County.

III. The third line contains a short description of the plant, whether tree, shrub, or herb; its duration, soil, or other circumstances, and its usual time of flowering.

IV. Following the numbers 1—5, which represent the five districts into which Suffolk has been divided to ex-

hibit the distribution of the individual species in the County, are given the localities in which the plants have severally been found, with a reference to the authorities, who vouch for the occurrence of the plants in the places named. Where one or more plants are set down without an authority following, Dr. Hind is to be regarded as responsible for their authenticity. Plants separated by a semicolon (;) belong to the same authority. A dash after a colon (:—) shows a change of authority. The divisions are those appointed under the Act of 1885 for the representation of the County in Parliament. Divisions 1 and 2, together agree nearly with Mr. H. C. Watson's West Suffolk, and 3, 4, and 5, with his East Suffolk. No. 1 is the N.W. division; No. 2 is the S. division (Sudbury). No. 3 is the N.E. division (Lowestoft); No. 4 the East division (Eye); No. 5 the S.E. division (Woodbridge), for which we have substituted Ipswich, as being the more central and important place. Also division 1, we have connected with Bury, as a more fitting centre than Stowmarket. The localities for the very common species are not recorded. In cases to which peculiar interest is attached, as in doubtful or possibly extinct plants, the occurrence of abnormal forms or unusual varieties, special reference is made to the fact, or such explanations are given, as may be necessary for the information of the reader.

V. As far as has been possible, the earliest notice of the occurrence of each species in Suffolk has been noted. In some cases, more or less doubt may attach to the date given. Great care, however, has been taken to ascertain the correct year.

SIGNS AND ABBREVIATIONS.

[] Square brackets indicate plants, which have been found at one time or other in the County, but have never been naturalized in it.

* An asterisk marks a species probably introduced, but which has become naturalized.

† A dagger marks a species, which, though apparently native, has possibly been introduced

‡ Marks a species doubtfully though probably introduced.

BOOKS, MSS., AND OTHER AUTHORITIES CONSULTED
OR QUOTED IN THE FLORA.

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- Bab. Man.*—Manual of the British Botany, by Charles Cardale Babington, M.A., F.R.S., F.L.S., &c., London, Ed. VII, 1874. Ed. VIII, 1881.
- Baker.*—Review of the British Roses by J. G. Baker, F.L.S., &c., in the *Naturalist*, first vol. 1864.
- Britten.*—Spontaneous Exotics, by James Britten. Now Curator of the Botanical Department in South Kensington Museum, in the *Naturalist*, 1st & 2nd voll. 1865.
- Blake Herb.*—See *Hb. Blk.*
- Borrer Herb.*—See *Hb. Borrer* in *Hist. Yarm.*
- Bot. Gazette* in *Phyt.*—Botanical Gazette.
- Bot. Soc. Lond.*—Botanical Society of London.
- Buddle Herb.*—See *Hb. Budd.*
- Buddle Mss.*—See *Mss. Budd.*
- Bullen.*—Bulwark of Defence, by Rev. Dr. Bullen, including "A Book of Simples being a Herball, &c., 1562."
- Casborne Herb.*—See *Hb. Cas.*
- Comp. Cyb. Britt.*—Compendium of Cybele Britannica, by Hewitt Cottrell Watson, Thames Ditton, 3 voll. 1868-70, and Supplement, 1872.
- Crabbe.*—Appendix to *Hist. Fram.*, being a Catalogue of Plants by the Rev. George Crabbe, 1798; also Plants in *B.G.* on his authority.
- Cullum, Sir J.*—See *Sir J. Cullum's History of Hawstead*, 1784, and Ms. notes in *Naturalist's Journal* by the Rev. Sir John Cullum, Bart., F.S.A., F.R.S., 1772-84.

- Cullum, Sir T. G.*—See *Sir T. G. Cullum*. *Floræ Anglicæ Specimen*, &c.; also *Plants in Gillingwater's History of Bury*, and in *B.G. on the authority of Sir T. G. Cullum, Bart.*, 1804-5.
- Cyb. Br.*—*Cybele Britannica, or British Plants and their Geographical Relations*, by Hewitt Cottrell Watson, 4 voll. London, 1847-59.
- Cyb. Br. Supp.*—First part of a Supplement to the *Cybele Britannica*, by Hewitt Cottrell Watson, London. Printed for private distribution, 1860.
- Davy Ms.*—See *Ms. Davy*.
- Dickson*—*Hortus Siccus Brittannicus*, by James Dickson, F.L.S., Lond., 1793-1802.
- Dill.*—Dillenius.
- Dill. Ray.*—*Joannis Raii Synopsis Meth. Stirp. Brit. Editio tertia*. (Edited by J. J. Dillenius, M.D.), London, 1724.
- Dill. Ray in Hort. Ox.*—*Ms. notes in a copy of Dill. Ray*, in the Library of the Oxford Botanical Garden, attributed to Mr. Pitchford, 1780.
- Don.*—A general History of the Dichlamydeous Plants, by George Don, F.L.S., 4 voll. 4to, London, 1831-8.
- Dunlap, Hb.*—See *Hb. Dun.*
- Eng. Bot. Syme.*—*English Botany*, Ed. iii, by John T. Boswell Syme, London, 1863, &c.
- Eng. Fl.*—See *Sir J. E. Smith*.
- Floræ Anglicæ Specimen*, inchoatus 1774. Auctore Thoma Gery Cullum, Baroneto.
- Fl. Brit.*—See *Sir J. E. Smith*.
- Fl. Cam.*—*Flora of Cambridgeshire*, by Charles Cardale Babington, M.A., F.R.S., F.L.S., &c., London, 1860.
- Fl. Essex.*—*The Flora of Essex*, by George Stacy Gibson, F.L.S., London, 1862.
- Fl. Germ. & Switz.*—*Taschenbuch der Deutschen und Schweizzer Flora bearbeitet von D. Wilh. Dan. Jos. Koch*, Fünfte Auflage. Leipzig, 1860.
- Fl. Holland.*—*Zakflora beweert door, Dr. W. F. Suringar*. Zesde Druck. Leeuwarden, 1884.

- Fl. Norf.*.—Flora of Norfolk, by the Rev. Kirby Trimmer, B.A.
- Fl. Suff.*.—See *H. & S.*
- Fulcher.*.—A list of the Wild Flowers of the neighbourhood of Sudbury, in Fulcher's Sudbury Journal, 1838.
- Galp.*.—The Flowering Plants, &c., of Harleston, by the Rev. Francis William Galpin, M.A., F.L.S. London, 1888.
- Geld. Herb.*.—*Hb. Geld.*
- Ger.*.—The Herball or General History of Plants, gathered by John Gerarde, Master of Chirurgerie, London, 1597.
- Geog. Dist. Brit. Plants.*.—Geographical Distribution of British Plants, by H. C. Watson, 1832.
- Ger. em.*.—Johnson's Gerarde, 1633.
- Gough's Camd.*.—Camden's Britannia, by Richard Gough. London, 1789.
- Haward.*.—See *Hist. Wher.*
- Hayward.*.—The Botanist's Pocket-book, by W. R. Hayward, London, 1878.
- Hb. Blk.*.—Herbarium, compiled by Lady Blake, about 1840-50. Now in Ipswich Museum.
- Hb. Borrer.*.—Herbarium, collected by W. Borrer. Now at the Royal Gardens, Kew.
- H.B.S.*.—Harleston Botanical Society, List of Plants.
- Hb. Budd.*.—Herbarium, compiled by the Rev. Adam Buddle, about 1696 to 1714. Formerly in Sir Hans Sloane's Museum; now in the Botanical Department of South Kensington Museum.
- Hb. Cas*.—Herbarium of British Plants, 25 voll. fol., by Mrs. Casborne, late of Pakenham, 1819-50. Now in possession of R. E. Lofft, Esq., Troston Hall.
- Hb. Dun.*.—Herbarium of British Plants, 4 voll. large 4to, compiled by Mrs. Dunlap, of Bardwell Rectory, 1844-53.
- Hb. FitzR.*.—Small Herbarium of Euston Plants, collected by Lady Laura FitzRoy; now in possession of the Honble. Canon Phipps.

- Hb. F.*—Herbarium of British Plants, compiled by the late Mrs. French, of Woolpit, now in possession of the author.
- Hb. Geld.*—Herbarium of British Plants, compiled by Herbert D. Geldart, Norwich.
- Hb. Glasspoole.*—Herbarium, compiled by the late Herbert G. Glasspoole, now forming part of *Hb. Geld.*
- Hb. Gray.*—Large Herbarium of British and European Plants compiled by the Rev. J. D. Gray, Vicar of Nayland, 1878-88.
- Hb. Jeffes.*—Herbarium of British Plants, compiled by Miss Jeffes, of Needham Market.
- Hb. Hens.*—Herbarium in Ipswich Museum of Hitcham Plants, compiled by the late Prof. Henslow; also a collection of Plants by the Hitcham School Children.
- Hb. Ly.*—Herbarium of British Plants compiled by Miss Lathbury, of Bury St. Edmunds, 1832-59.
- Hb. Mg.*—Small Collection of Suffolk and Essex Plants in Ipswich Museum, by Miss Manning.
- Hb. Not.*—Herbarium, compiled by the late W. L. Notcutt, of Ipswich, now in possession of Charles Bailey, F.L.S.
- Hb. Pk.*—Small Herbarium of British Plants by C. W. Peck, of Brockford.
- Hb. Rk.*—Herbarium of British Plants, by L. N. Rickards, late of Stowlangtoft Rectory, about 1840-50. Now in Cambridge University Herbarium.
- Hb. Salm.*—Small Herbarium in Norwich Museum, by J. D. Salmon, formerly of Thetford. 1835-7.
- Hb. Sk.*—Herbarium compiled by the late Edmund Skepper, of Bury St. Edmunds.
- Hb. Suff.*—Herbarium of Suffolk Plants, specially compiled to assist in preparing the Flora of Suffolk, 1876-88. To be placed eventually in Ipswich Museum. Reference to it indicated thus ||.
- Hb. Turn.*—Small Herbarium of British Plants, by Miss Turner, of Bradfield St. George.
- Hb. Wils.*—Herbarium of British Plants, in the Library of

Stowlangtoft Hall: attributed to the late Rev. W. Steggall. 1830-4.

H. & S.—Flora of Suffolk, by the Rev. J. S. Henslow, M.A., Prof. Bot., Rector of Hitcham, and Edmund Skepper, London & Bury St. Edmunds, 1860.

Hist. Bury.—History of Bury by Gillingwater: List of Plants by Sir T. G. Cullum, Bart., 1804.

Hist. Fram.—History of Framlingham, begun by the late Robert Hawes, Gentleman, Steward of the Manor of Framlingham and Saxted, with considerable additions and notes by Robert Loder. (See *Crabbe*.) Woodbridge, 1798.

Hist. Southwold.—History of Southwold, by R. Wake, 1839, Yarmouth.

Hist. Wher.—History of Wherstead, by the Rev. F. Barham Zincke. List of Plants by H. Haward, Esq., 1887.

Hist. Yarm.—Sketch of the Natural History of Yarmouth and its Neighbourhood, by C. J. and James Paget. Yarmouth and London, 1834.

Hooker.—The British Flora, by Sir William Jackson Hooker, K.H., LL.D., F.R.A., & L.S. Ed. V. London, 1842.

Hook. St. Fl.—The Student's Flora of the British Islands, by Sir J. D. Hooker, K.C.S.I., C.B., &c. Ed. III, 1884.

How.—Phytologia Britannica, by William How, M.D. London, 1650.

Huds.—Flora Anglica, Gulielmi Hudson, F.R.S. Ed. III, 1798.

I.S. Soc.—British Wild Flowers collected by the Botanical Section of the Ipswich Scientific Society. *Ms.* 1887.

Ips. Fl.—Ipswich Flora, Loudon's Mag. Nat. Hist. vol. 3. Quoted from *H. & S.*

Ips. Portf.—Ipswich Portfolio. Anonymous Collection of Plants, incorporated with *Hb. Blk.*

J. of B.—Journal of Botany, British & Foreign, by Berthold Siemen, Ph.D., F.L.S., succeeded by Hy. Trimen, M.B., F.L.S. Present Editor, James Britten, Esq., F.L.S. 1863.

- Jackson*.—Ms. notes by R. Jackson, in a copy of J. Martyn's *Methodus Plantarum*, in the Library of Trin. Coll., Cambridge.
- Johnson*.—*Ger. em.* The Herball, &c., by John Gerarde, very much enlarged and emended by Thomas Johnson, Citizen and Apothecary of London, 1633.
- Lindl. Syn.*—A Synopsis of the British Flora, by John Lindley, Ph.D., F.R.S., &c. London, Ed. III, 1841.
- Lob. Ill*—Lobel, *Stirpium Illustrationes accurante Gul. How*, M.D., London, 1655.
- Lon. Cat.*—The London Catalogue of British Plants, Ed. VIII, by F. J. Hanbury, 1886.
- Lowe*.—A Natural History of British Grasses, by Edward J. Lowe, London, 1858.
- M. M.*—The Gardener's and Botanist's Dictionary, by Philip Miller, F.R.S. (1724). The whole corrected and newly arranged by Thomas Martyn, B.D., F.R.S., Regius Professor of Botany in the University of Cambridge. 2 voll., fol., London, 1797-1807.
- Martyn*.—*Plantæ Cantabrigienses Appendix, Catalogus, &c.*, London, 1763, by Thomas Martyn, B.D., &c.
- Moor*.—Ms. List of Plants of Great Bealings, &c., by the late Rev. Edward James Moor, B.A.
- Moore*.—Octavo Nature printed British Ferns, by Thomas Moore, London, 1859.
- Ms. Davy*.—Ms. List of Suffolk Plants, with three Appendices, by David Elisha Davy; probable date 1828. Now in the Library of the British Museum.
- Mss. Fl. Suff.*—Mss. Lists referred to in the preface of *Flora of Suffolk*, contributed by Rev. E. N. Bloomfield.
- Ms. Notes*.—Notes in Dr. Babington's copy of the *Flora of Suffolk* of 1860.
- „ „ —Notes in Mrs. French's copy of the *Flora of Suffolk* of 1860.
- „ „ —Notes in W. Jordan's copy of the *Flora of Suffolk* of 1860.
- Ms. Sk.*—*Sk. Ms.*

N.B.G..—The New Botanist's Guide to the Localities of the Rarer Plants of Britain, 2 voll., by H. C. Watson, 1835-7.

Newman.—A History of British Ferns, by Edward Newman, F.L.S., F.B.S., F.Z.S., &c. London, 1854.

Notes Br. Rubi.—Notes on British Rubi, by C. C. Babington, M.A., F.R.S., &c., in *J. of B.*, July and August, 1886.

Parkinson.—Theatrum Botanicum: The Theatre of Plants, &c., by John Parkinson, Apothecary of London, and the King's Herbalist. London, 1640.

Phyt. N.S.—The Phytologist: A Botanical Journal, New Series, Edited by Alexander Irvine, 6 voll. London, 1855-63.

Phyt. O.S.—The Phytologist: A Botanical Journal, Old Series, Edited by George Luxford, A.L.S., 5 voll. London, 1841-54.

Pulteney.—Progress of Botany in England.

Ray.—Synopsis Methodica Stirpium Britt. Auct Joanne Raio. London, Ed. I, 1690; Ed. II, 1696; Ed. III, (by J. J. Dillenius, M.D.) 1724.

Raynbird.—Natural Grasses of West Suffolk, by W. & H. Raynbird, 1846.

Record Club.

Salmon Hb.—*Hb. Salm.*

Sir J. Cullum.—*Cullum, Sir J.*

Sir J. E. Smith.—Flora Britannica Auctore J. E. Smith, M.D., 3 voll., London, 1800-4; and the English Flora, by Sir J. E. Smith, M.D., F.R.S., 4 voll., London, 1824-8.

Sir T. G. Cullum.—*Cullum, Sir T. G.*

Sk. ms.—Ms. Notes in various Flora, &c., by the late Edmund Skepper. Bury St. Edmunds.

The Fenland, Past and Present, by S. H. Miller, F.R.A.S., F.M.S., and J. B. Skertchly, F.G.S., &c. London, 1878.

Top. Bot.—Topographical Botany, by Hewitt Cottrell Watson. 2 voll. 1873-4.

Transactions of the Norfolk and Norwich Natural History Society. *Var. years.*

Turner.—William Turner's Herball. Part 1, London, 1551; part 2, Cologne, 1562; part 3, Cologne, 1566. Reprint of the whole, Cologne, 1568.

Turn. Hb.—Hb. Turn.

With.—A Systematic Arrangement of British Plants, by William Withering, M.D., F.R.S. 4 voll. Ed. 5. Birmingham, 1812.

LIST OF THE PRINCIPAL PERSONS WHO HAVE CONTRIBUTED LISTS OR OTHER INFORMATION FOR THIS FLORA, OR, WHO ARE QUOTED AS AUTHORITIES FOR PLANTS OR SOCIETIES.

A. B.—Arthur Bennett, F.L.S., Correspondence, Lists, Examination of Plants, and important help in various ways.

Amyot, Thos. E., M.R.C.S., Diss. Authority for Plants.

Ashby, Mr. Authority in *B.C.*

Ashfield, C. J. Two papers on Suffolk Botany in *Phyt. N.S.*

Backhouse, J. Authority in *Natural Hist. Yarm.*

Barker, H. R., Bury. Localities of Plants.

Bell, Miss, Plants *N.B.G.* and *Top.Bot.*

Bevan, Mrs. Plumpton Hall. Localities of Plants through *C.B.*

Biddell, G. A. Mem. Inst. C.E., Ipswich. Table of Rain-fall for Ipswich.

Biddell, Mrs. Playford. Notice of *Gagea lutea*.

Bidwell, H., Ipswich. Notice of *Lastrea cristata*.

Bird, Dr., Wattisford. Notice of *Sedum Fabaria* and other Plants.

Blackett, R., Bury. List of Plants in *H. & S.*

Blake, Lady, late of Great Barton. Compiler of *Hb. Blk.*; also contributor to several other *Hbb.*

Boswell, Dr.; J. T. Syme; J. T. Boswell Syme, F.L.S., &c.

Bridgman, Miss, Coney Weston Hall. Notice of Plants.

Bromfield, Dr. W. Contributor of Plants to several *Hbb.*

Browning, Mrs. Notice of Plants per *C.B.*

Bryant, Rev. H. Authority for Plants in *B.G.* and *Dill. Ray in Hort. Ox.*

Bullender, Miss, Soham. List of Plants per Mrs. French.

Burrell, R., Westley Hall. Notice of Plants and Meteorological Observations.

Burroughs, Rev. Mr. Authority for Plants in *B.G.*

Candler, E., Harleston. An Authority for *Sparganium neglectum*.

Carss, Mrs., Little Welnetham. List of Plants in *H. & S.*, &c.

Cas. The late Mrs. Casborne, Pakenham. Compiler of *Hb. Cas.*, and contributor to other *Hbb.*

C.A.W. Rev. C. A. Williamson, Cockfield. List of Plants per *C.B.*

C.B. The late Rev. Churchill Babington, D.D., F.L.S., &c., Rector of Cockfield, Hon. Fellow of St. John's Coll., Cambridge. Annotated Flora, Lists, Examination of Herbaria and of the Old Herbalists; Loan of Books, Specimens, outlines of various Papers, &c.

C.C.B. Charles Cardale Babington, M.A., F.R.S., F.L.S., Prof. of Botany in the University of Cambridge. Examination of critical Plants; mention of Localities; kind assistance and counsel.

Clay, Dr. Authority for Plants in *Hb. Rk.*

Clowes, G. Authority for Plants in *Hb. Geld.*

Clowes, E., Mrs., Needham Market. List of Plants.

Collins, T. C., Diss. List of Plants and rare Specimens.

Colville, Rev. Notice of a rare Plant.

Cowell, Edward Byles, M.A., Fellow C.C. Coll., Cambridge, and Prof. of Sanscrit. List of Plants.

- Croker*, Rev. Joseph Morrison, M.A., formerly Fellow of G. & C. Coll., Cambridge, Rector of Lavenham. Notice of Plants per *C.B.*
- Cross*, W. J., Ely. Specimens and lists of Plants.
- Crowfoot*, W.M., M.B., Beccles. List of Plants.
- Cullum*, G. Milner Gibson, Esq., Hardwick Hall. Information about Sir J. and Sir T. G. Cullum, and loan of Sir John's Naturalist's Journal.
- Dale*, D. Authority for Plants in *Raii Synopsis*.
- Dalton*, Rev. J. Authority for Plants in *B.G.*
- Dowell*. Authority for Plant in *Hb. Salm.*
- Downton*, Miss E. Authority for Plant.
- Druce*, G. C., Author of the Flora of Oxfordshire. Copy of *Ms.* notes in *Dill. Ray in Herb. Ox.* Also notices of Plants and Specimens.
- Duthie*, Jas. Authority for Plants in *J. of B.*
- Eagle*, F. K. Authority for Plants in *B.G.* and various *Hbb.*
- E.A.H.* See *Holmes*.
- E.F.L.* See *Linton*.
- E.N.B.*, Rev. Edwin Newson Bloomfield, M.A., Rector of Guestling, Sussex; formerly Sen. Fellow of Clare Coll., Cambridge. Correspondence, Lists, Plants; Critical Supervision of the Flora, &c.
- Ewing*, J. W. Authority in *Hb. Geld.*
- F.* The late Mrs. French of Woolpit: Gift of Herbarium, Annotated Flora, Lists, &c.
- F.C.S.* Miss Stanford, Ashbocking. List of Plants.
- F. Fox*. Coddenham. List of Plants.
- Fitt*, G. Authority in *Hb. Glasspoole*.
- F.K.E.* See *Eagle*.
- Forby*., Rev. R. Authority for Plants in *B.G.*
- Forster*, E., jun. Authority for Plants in *B.G.*
- Freeman*, H., late of Saxmundham. Authority for a Plant.
- French*, R. B. Authority in *Hb. F.*
- F.T.* F. Townsend: Authority for Plants in *Phyt. O.S.*

- Gage*, Sir T. Bart. Authority for Plants in *Hb. Sk.*
- Galpin*, The Rev. Francis William, M.A., F.L.S., Curate of St. Giles, London : Lists of Plants from records of the late Rev. E. A. Holmes, and from *H.B.S.*
- Gedge*, Joseph, Bury. List of Plants in *H. & S.*
- Geldart*, Herbert D., Norwich. Compiler of *Hb. Geld.* List of Suffolk Plants in his collection.
- Gibson*, Mrs., Lound Rectory. Use of Portfolio of Suffolk Plants sketched from nature.
- Glasspoole*, H. G., the late. Compiler of *Hb. Glasspoole* now in *Hb. Geld.*
- Goodenough*, The late Rt. Rev. Samuel, LL.D., F.R.S., Lord Bishop of Carlisle. Authority for several Plants in *B.G.*, &c.
- Gray*, Rev. John Durbin, M.A. Vicar of Nayland. List of Plants and notice of various discoveries, &c.
- H.D.G.* See *Geldart*.
- Harries*, Rev. T. S. J., B.A., Rector of Nedging. Notice of Plants through *C.B.*
- Harvey*, The late Miss. Plants in various *Hbb.*
- Hay*, Wm. Authority in *Hist. Southwold.*
- Hele*, Nicholas Fenwick, M.R.C.S., Aldeburgh. List of Plants and use of small Herbarium.
- Hemsted*, Rev. J. Authority for Plants in *B.G.*
- Hickling*, The Rev. Edmund Lovegrove, Frostenden. Notice of Plants.
- H.M.S.* Miss Sheppard, Wolverstone. Lists of Plants.
- Holden*, Miss, Kensington. Notice of Plants.
- Holden*, John Sinclair, M.D. List of Plants through *C.B.*
- Holland*, Rev. Wm., B.A., Rector of Huntingfield. Rare Specimens and lists of Plants.
- Humphrey*, Mr. Authority for Plants in *Dill. Ray in Hort. Ox.* and in *B.G.*
- Jacobson*, W. Authority in *B.G.*
- James*, Rev. Herbert, M.A., Rector of Livermere, formerly Fellow of Christ's Coll., Cambridge. Notice of Plants.

Jermyn, Dr. Notice of Plants.

J.F.W. See *Wilkinson*.

J.H.G. Miss Grubbe. List of Plants through *C.B.*

J.S.H. See Holden, J.S.

J.S.S. The Rev. John Sykes Sawbridge, M.A., Rector of Sawbridge. Notice of various Plants.

Kilner, The Rev. Henry Ingate, M.A., Rector of Saxham Parva. Specimen.

King, Bolton. Notice of Plants in *J. of B.*, and through G. E. Druce.

King, W. D. Notice of Plants in *Phyt. O.S.*

Kirby, Rev. William, late Rector of Barham, the celebrated Entomologist, Authority for Plants in *B.G.* and *Hb. F.*

K.T. See *Trimmer*.

Lathbury, Miss, Bury. Compiler of *Hb. Ly.*

Lathbury, Rev. P., late Rector of Bradfield Combust. Authority for Plants in *B.C.* and in *Hb. Ly.*

Laurents, Mr. Reference in *Hist. Bury.*

Lawson. Authority in *Raii Synopsis*.

Leach, R. E., F.G.S., Beccles. Lists of Plants and various Specimens.

Leathes, Rev. G. R., late of Shropham Hall. Authority for Plants in *B.G.*, and in several Herbaria.

Lechmere, Miss. Authority for Plants in *Hb. F.*

Linton, Rev. Edward Francis, M.A., Crymlyn, Bournemouth. Several lists of Plants, and frequent correspondence.

Longe, Rev. John, Rector of Sternfield. Notices of Plants.

Mackie, F. Authority for Plants in *Hb. Geld.*

Marshall, Rev. Edward Shearburn, M.A., Witley. List of Plants, &c.

Matthew. An authority for *Œnanthe peucedanifolia*.

McAub. Mrs. McAubrey, Beccles. Use of original sketches of Wild Plants.

Merritt. Authority in *B.G.* for *Archangelica officinalis*.

- Miller, H., jun., Ipswich. Lists of Plants and other information.
- M.L.H. Miss Hodgson, Wrentham. Specimens of Plants.
- Moor, late Rev. E. J., B.A., Rector of Great Bealings. Important list of Plants through *C.B.*
- Morse, Mr. Authority for a Plant in *B.G.*
- Newbould, late Rev. W. W., M.A. Notices of Plants in *Phyt.* and *J. of B.*
- Newton, Mr. Authority for Plants in *Dill. Ray.*
- Norgate, Frank, Bury. List of Plants.
- Norman, late Mr. W., given as an authority by H. Miller, jun.
- Notcutt, late W. L., Ipswich. Quoted from *H. & S.*
- Palmer, H. D., M.R.C.S., Nayland. Authority for Plants.
- Parker, the late Mrs., Clopton Hall. List of Plants, and use of annotated Flora.
- Peck, Charles W., Brockford. Specimens and list of Plants.
- Pertz, Miss, Cambridge. Authority for Plants.
- Pettiward, Lady, late of Great Finborough Hall. Notice of Plants through *C.B.*
- Pettiward, Miss, Great Finborough Hall. Notice of Plants through *C.B.*
- Phipps, Rev. & Hon. Aug. Fred., M.A., Hon. Canon of Ely. Loan of *Hb. FitzR.*
- Phipps, late Rev. E. J., M.A., Rector of Stansfield. Authority for Plants.
- Pitchford, Mr. List in *Dill. Ray in Hort. Ox.*, and Plants in *B.G.*
- Preston, Mrs. Notice of Plants.
- Prestwich, Prof. Notice of ancient Plants.
- Priest, J. Authority in *Hb. Geld.*
- Purchas, Rev. William Henry, Vicar of Astonfield. Use of marked Catalogue.
- Rasor, J., Woolpit. Lists and specimens of Plants.
- Reid, Clement, F.G.S. Author of a paper on the Cromer

Forest bed, and of Notes on the ancient Plants of Suffolk.

Relhan, Rev. R., F.R.S., &c., formerly Chaplain of King's Coll., Cambridge, Author of *Flora Cantabrigiensis*.
Authority for Plants in *B.G.*

Rickards, Rev. Samuel, late Rector of Stowlangtoft.
Authority for Plants.

Ridley, Prof. H.N. Notes on ancient Plants in *Geological Magazine*.

Roberts, Rev. Henry, Naughton. List in *H. & S.*

Rose, C., Tuddenham. Authority for Plants in *Hb. Wils.*

Rouse, Miss. Authority for a Plant through *A.B.*

Rys, H. An authority for *Muscari racemosum*.

Salter, J. W. Authority for Plants in *Phyt. O.S.*

Sare. Authority for a Plant in *How's Phytologia Britannica*.

Sewell, Rev. W. H., M.A., Vicar of Yaxley. Notices of Plants, &c.

Sherard, J. and W. Authorities for Plants in *Dill. Ray*.

Sir C.J.F.B. The late Sir Charles James Fox Bunbury, Bart. Five important lists of Plants and loan of *Hb. Rick.*, &c.

Smith, Sir J. E., Author of the *Flora Britannica* and the *English Flora*.

Spalding, F., Colchester Museum. List of Plants through *C.B.*

Spalding, T. M. Authority for a Plant.

Steggall, Miss. Authority for Plant in *Hb. Wils.*

Steggall, late Rev. William, M.A. Supposed compiler of *Hb. Wils.*

Stock, D., Bungay. Authority for Plants in *N.B.G. & Top. Bot.*

Stone, Mr. Authority for Plants in *B.G.*

Suttaby, Mrs. Plants in *Hb. Turn.*

Sutton, Rev. C. Authority for Plants in *B.G.*

Syme, J. T. Dr. Boswell. Editor of *English Botany*

writer of a paper in *Phyt. N.S.* Authority for several Plants.

Symonds, Mrs. Locality through *C.B.*

Tate, Rev. Wm. Roddam, Vicar of Walpole. Authority for Plants.

Taylor, J. E., *Ph. D.*, Ipswich Museum. Notice of Plants; Guide to Suffolk.

T. B. The late Rev. Thos. Brown, B.A., Rector of Hemingstone. List of Plants.

Tearle, The late Rev. Fred., M.A., Vicar of Gazeley. List of Plants through *C.B.*

Temple, Miss. Authority for Plants in *B.G.*

Terry, Mrs. Tostock. List of Plants through *C.B.*

T.H. Rev. Thos. Hedley, M.A., Rector of Grundisburgh, late Fellow of Trin. Coll., Cambridge. List of Plants.

Tilney, Rev. H. Authority for Plants in *B.G.*

Tollers, Mrs. List of Plants through *C.B.*

Torlesse, The late Rev. C. M., M.A., Vicar of Stoke-by-Nayland. An authority for *Amaranthus Blitum*.

Townsend, J. Lists of Plants in *Phyt. O. & N.S.*

Trevelyan, Sir W. C. Earliest authority for *Carex ericetorum*.

Trimen, Henry, M.B., F.L.S., one of the editors of the Flora of Middlesex. List of Plants near Lowestoft in *Phyt. N.S.*

Trimmer, The late Rev. Kirby, B.A., Norwich, editor of the Flora of Norfolk. Lists.

Turner, Dawson, F.R.S., &c., one of the compilers of *B.G.*, and authority for many Suffolk Plants.

Turner, F. Authority for various Plants in *B.G.*

Turner, James. Authority for various Plants in *B.G.*

Turner, Mrs. Authority for Plant in *Hb. Wils.*

T. W. G. T. W. Gissing, Wakefield. List of Plants in *Phyt. N.S.*

Uthoff, Miss. Authority for Plant in *B.G.*

Varenne, E. G. List of Plants in *Phyt. O.S.*, and authority in *Top. Bot.*

- Wallis*, W. Authority for Plant in *N.B.G.*
- Ward*, J. Authority for Plant in *N.B.G.*
- Watson*, H. C. Author of *Cybele Britannica* ; Geographical Distribution of British Plants, &c. Compiler of *N.B.G.*, and of *Top. Bot.*
- White*, Dr., late of Lavenham. Authority for Plants in *H. & S.*, and in *Hb. F.*
- Wigg*, Lilly, F.L.S. A chief contributor to *B.G.*
- Wilkinson*, Rev. John Frome, M.A., Rector of Kilvington. Lists and Specimens.
- Williams*, Rev. Arthur Lukyn, M.A., Rector of Ampton. Authority for Plants.
- Willisel*. Authority in *Dill. Ray*.
- Wilson*, Arthur Maitland, Esq., D.L., Stowlangtoft Hall. Loan of *Hb. Wils.*
- Wilson*, Miss, Langham Hall. Authority for locality.
- Winch*. Authority in *N.B.G.*
- Winter*, W. Paper in *Phyt. N.S.*
- W. J.* William Jordan, formerly of Cockfield. Dried Specimens ; use of annotated Flora, &c.
- W. L. N.* See *Notcutt*.
- Wolsey*, Geo. Authority in *Phyt. N.S.* for *Silene catholica*.
- Wood*, Dr. Authority for Plants, through *C.B.*
- Woods*, J., jun. Authority in *B.G.*
- Woodward*, Dr. S. P. Contributor to Appendix of *N.B.G.*
- Woodward*, T. J., late of Bungay. Large contributor to *With.*, *M.M.*, *Flora Britannica* and *B.G.*



PHANEROGAMIA.

THALAMIFLORÆ.

RANUNCULACEÆ.

Clematis. *Linn.*

1. *C. Vitalba*, *Linn. Traveller's Joy ; Old Man's Beard ; White Vine ; Virgin's Bower.*

Bab. Man. 3. Hook. St. Fl. 2. H. and S. 1. Hist. Wher.
Hist. Yar. Galp. Top. Bot. Suff. E. and W.

Climbing deciduous shrub ; in hedges and thickets, especially on a chalky soil ; not infrequent in Suffolk.

June to August.

1. Bardwell || ; Brandon ; Ixworth ; Risby ; Stanton ; Thurston ; Wattisfield ; Onehouse ; Stowmarket and Wetherden :—Bury, *Hb. Sk.* :—Pakenham, *Hb. Blk.* :—Stowlangtoft, *Hb. Rk.* :—Walsham, *Hb. Dun.* :—Barton, *Sir C. J. F. B.* :—Woolpit, *F.* :—Nowton ; Hardwick and Ickworth, *Norgate.*

2. Acton ; Bildeston ; Chellesworth ; Long Melford ; Wiston ; Nayland and Polstead ; Stoke-by-Clare :—Cockfield, *C. B.* :—Hitcham, *Hb. Hens* :—Lit. Thurlow, *Hb. F.* :—Kersey, *E. F. L.* :—Chedburgh, *Miss Bell.*

3. Mettingham :—Bungay, *Stock.*

4. Wortham ; Mellis ; Eye ; Saxmundham ; Darsham ; Westleton :—Gt. Glemham, *E. N. B.* :—Middleton, *T. W. G.* :—Mendham ; Wingfield, &c. *Galp.*

5. Shelley :—Bredfield ; Clopton ; Dallinghoo and Gt. Bealings, *Moor* :—Sproughton, *Miss Bell* :—Ashbocking, *F. C. S.* :—Needham Market, *E. Clowes* :—Grundisburgh, *T. H.* :—Hemingstone, *T. B.* :—Martlesham, *H. M. S.* :—Wherstead, *Haward.*

Earliest notice 1773. Sir J. Cullum.

Thalictrum. *Linn.*

2. *T. minus*, *Linn.* *Lesser Meadow Rue.*
 Bab. Man. 4. Hook. St. Fl. 2, 3. H. & S. 1. Hist. Bury.
 Top. Bot. Suff. W.
 Perennial Herb: rare. *a.* On sandhills near the sea.
b. In chalky and stony pastures in the N.W. division.
 June to August.
a. *T. dunense*, Dum. *T. maritimum*, Syme.
 3. Corton and Gorleston, *W. Winter*, *Phyt. N.S.*, Oct, 1861. Great doubt is attached to this authority. *Ed.*
b. *T. montanum*, Wallr. *T. flexuosum*, Bernhardt.
 1. Eriswell || and West Row:—Bury, *Sir T. G. Cullum*, and *Hbb. Blk. & Sk.*:—Hedge between Barton Mills and Lakenheath, *A.B.*:—Among furze on N.E. slope of Warren Hill, Mildenhall, *Sir C. J. F. B.*:—Risby Chalk-bank, *W. J.*:—Newmarket, *Dill.*:—Kentford, *Rev. F. Tearle*:—Higham, *H. & S.*:—Exning and Lakenheath, *Sk. ms.*:—Brandon, *W. J. Cross*.
 5. Darmsden Mill, near Needham Market, *Hb. Jeffes*.
 Earliest notice 1724. *Dillenius*.
3. *T. majus*, *Sm.* *T. majus*. *Crantz.* *Greater Meadow Rue.*
 Bab. Man. 4. Hook. St. Fl. 3.
 Perennial herb; somewhat rare; in copses, &c.
 First recognised as a Suffolk Plant in 1879, by Mr. W. Jordan of Cockfield. Earlier plants in Herbaria were labelled *T. minus*. In 1858 a plant found by Sir C. J. F. Bunbury is thus described: 'A very luxuriant and less glaucous variety (of supposed *T. minus*.) was found in a hedge on the left-hand side of the road from Mildenhall to Holywell Row, approaching *T. majus*, Sm.'
 July, August.
 1. Between Cavenham and Tuddenham, *W. J.*:—Mildenhall, *Sir C. J. F. B.*:—Ixworth, *Hb. Blk. fide Sir C. J. F. B.!*:—Pakenham, *Hb. Cas.*:—Tuddenham, *C. Rose in Hb. Wils.*
 Earliest example 1832. *C. Rose*.
4. *T. flavum*, *Linn.* *Common Meadow Rue.*
 Bab. Man. 4. Hook. St. Fl. 3. H. & S. 1. Hist. Fram.
 Hist. Yarm. Hist. Bury. Top. Bot. Suff. E. and W. Galp.
 Perennial herb; not unfrequent in marshes and on margins of rivers.
 June to August.

1. Banks of the Upper Ouse at Bardwell, Ixworth Thorpe and Honington; of the Little Ouse at Thelnetham, Euston, Thetford Warren and Lakenheath; of the Lark at Lackford Bridge, Tuddenham and Mildenhall:—On the sides of the water courses in the Wammell meadows, Mildenhall, *Sir C.J.F.B.*:—Tostock, *Mrs. Terry*.

2. At Nayland and Stoke-on-the-Stour:—Thurlow, *Hb. F.*:—Monk's Eleigh, *Sk. ms.*:—Hadleigh, *F. Spalding*.

3. Very plentiful on the Lower Waveney and in the Oulton marshes:—Burgh Castle, *Paget*:—Bungay; Herringfleet and Somerleyton, *Sk. ms.*: Belton, *Phyt. N.S.* 1862:—Homersfield Bridge and Flixton, *Galp*.

4. At Stuston on the Upper Waveney:—In ditches at Framlingham, *Crabbe*:—Great Glemham and Stratford, *St. Andrews, E.N.B.*:—Badingham, *T.W.G.*

5. Needham Market and Claydon on the Gipping:—Hemingstone, *T.B.*:—Bramford, *Miller*:—Near Ipswich, *W.L.N.*:—Bergholt, *Dr. White*.

The distribution of the various forms has not been sufficiently ascertained. In the following cases the varieties have been determined:—

a. T. Sphaerocarpum Lej.

1. Lakenheath ||; Mildenhall; Tuddenham;—Stowlangtoft, *Hb. Rk.*:—Market Weston, *Gray*.

2. Nayland and Stoke.

3. Banks near Oulton Broad.

4. Stuston.

b. T. riparium, Jord.

1. Ixworth Thorpe Carr.

2. Nayland ||.

3. Carlton Colville.

c. T. Morisonii, Gm. *T. nigricans*, Jacq.

1. Ixworth Thorpe ||; Mildenhall.

5. Claydon.

Earliest notice 1773. Sir J. Cullum.

Anemone. *Linn.*

1. *A. Pulsatilla*, *Linn.*

Pasque Flower.

Bab. Man. 4.

Hook. St. Fl. 3.

H. & S. 1.

Hist. Bury.

Top. Bot. Suff. W.

Perennial herb; rare; extinct in some of its former localities. On dry chalky pastures. April, May.

1. Newmarket Heath || ; also in *Hb. Rk.* :—‘Heath West of Icklingham Church,’ *Sir J. Cullum.* ‘Both of these (A *Pulsatilla* and *Potentilla verna*) grow towards the Western extremity of a bank that was parallel with the river opposite Icklingham. It is the Devil’s Ditch and bank in miniature: mixed with these the *Thesium linophyllum* just makes its appearance.’ *Sir J. Cullum*, April 20th, 1774. (The bank referred to is in the parish of Cavenham, *Ed.*) :—‘Icklingham ten miles N. of Bury. *Sir Jno. Cullum.*’ *Ms. note in Dill. Ray. in Hb. Oxon.* :—‘Between the Fir plantation beyond Risby and Cavenham Severals.’ *Sir T. G. Cullum* :—Saxham, Bury, *M.M. & With.* :—Cavenham Heath, *Woodward.*

Earliest notice 1771. *Sir J. Cullum.*

2. *A. nemorosa.* *Linn.* *Wood Anemone.*
Windflower.

Bab. Man. 4. Hook. St. Fl. 4. H. & S. 2. Hist. Fram.
Hist. Yarm. Hist. Wher. Galp. Top. Bot. Suff. E. and W.

Perennial herb with horizontal rootstock; occurs usually in woods and thickets. March to May.

Tolerably frequent in all the districts.

Earliest notice 1798. *Rev. G. Crabbe.*

[*A. appenina,* *Linn.* *Appenine Windflower*

Bab. Man. 5. Hook. St. Fl. Appen. 529.

Herbaceous perennial with tuberous rootstock. Doubtless a garden escape. April.

2. Rede? *Hb. Turner.*

5. ‘Used to grow in a wild way in a meadow adjoining the garden at Helmingham Hall.’ *Moor.*

No precise record of first notice; about 1840? Rev. E. J. Moor.]

[*A. ranunculoides,* *Linn.* *Crowfoot Windflower.*

Bab. Man. 5. Hook. St. Fl. App. 529.

Herbaceous perennial, with horizontal rootstock. April.

An alien, gradually extending itself and becoming naturalized.

1. Troston || :—Risby, introduced by the late Prof. Henslow into Canon Abraham’s garden, but now spreading widely beyond the garden, *C.B.* :—Badwell Ash, two localities, *Miss Payne* :—Livermere, *Rev. H. James* :—Bot.

Garden, Bury, *Hb. Sk.* :—A few plants formerly grew at Hawstead, but were eradicated by a gardener, *N.B.G. Supp.* :—Hawstead, *Turner in Hb. Wils.*

5. Great Bealings, *Dr. J. E. Taylor.*

No record before 1834. *Turner.*

Adonis. *Linn.*

†1. *A. autumnalis*, *Linn.* *Autumnal Pheasant's Eye.*

Bab. Man. 5. Hook. St. Fl. 4. H. & S. 2.

Herbaceous annual. 'Naturalized in Suffolk,' Hook.

St. Fl. We have met with no instances of apparent naturalization. *Ed.* In or near gardens. 'Cultivated fields,' *H. & S.*

July to September.

1. Ixworth Thorpe || from former cultivation :—Barningham, *F.F.L.* :—Bury fields, *Hb. Wils.* :—Bot. Garden, Bury, *Hb. Sk.* :—'Corn fields about Bury,' *Dr. Bromfield.*

2. Hitcham, *Hb. Hens.* :—Long Melford, in a garden. ||

Earliest notice 1775. *Sir J. Cullum.*

Myosurus. *Linn.*

1. *M. minimus*, *Linn.* *Least Mousetail.*

Bab. Man. 5. Hook. St. Fl. 4. H. & S. 2.

Hist. Fram.

Hist. Yarm. *Hist. Wher.* *Top. Bot. Suff. E.*

Herbaceous annual, in damp fields, with a preference for clay soil. Somewhat rare, and less frequent than formerly.

April to June.

1. Hawstead, *Sir J. Cullum* :—Ickworth, *Hb. Sk.* :—*Lit. Welnetham, Mrs. Carss*, in *Sk. ms.* :—Near Gipping, *Ips. Fl.*

2. Stoke-by-Nayland, *Gray.* :—Flatford Mill and banks of Stour, *Dr. White*

3. Bungay, *Stock* :—Herringfleet, *Rev G. R. Leathes*, in *Hb. Rk. & Salm.* :—Browston Hall, *D. Turner* :—Blundeston, *Wigg* :—Sea-wall, Mutford Bridge, *Ms. Davy.*

4. 'Parham, in a wet meadow under trees,' *Crabbe* :—Kelsale, *Ms. Davy.*

5. Woolverstone, *H.M.S.* :—Darmsden, *Hb. Jeffes* ;—Wherstead, *Haward.*

Earliest record 1773. *Sir J. Cullum.*

Ranunculus. *Linn.*

1. *R. trichophyllus*, *Chaix.* *Hair-leaved Water Crowfoot, Water Fennel.*

Bab. Man. 6. Hook. St. Fl. Top. Bot. Suff. E and W. Galp.
Herbaceous aquatic perennial; in pools and streams.

May, June.

1. Thetford ||; Lakenheath ||; Wangford; Brandon; Bardwell; Barningham; Thelnetham; Harleston; Wetherden:—Mildenhall, *Sir C.J.F.B.*:—Bury, *Hb. Wils.*

2. Hitcham, *Hb. Hens.*: Nayland, *Gray.*

3. Kessingland:—St Margaret's, *Galp.*

4. Burgate; Fressingfield and Westleton:—Brockford, *Hb. Peck.*:—Mendham marshes, *Galp.*

5. Aldeburgh.

var. *R. Godronii*, Gren., *R. radians*, Rev.

Bab. Man. 6.

1. Knettishall ||; Thetford Warren ||.

2. Hitcham, *Hb. Hens.*

3. Kessingland and Benacre:—Kirkley, *Rev. A. L.*

Williams.

4. Huntingfield, *Holland.*

5. Aldeburgh.

First record 1834. *Hb. Wilson.*

2. *R. Drouetii*, F. Schultz. *Drouett's Water Crowfoot.*

Bab. Man. 6. Hook. St. Fl. 6. Top. Bot. Suff. E. and W. Galp.
Herbaceous aquatic perennial; in pools and ditches.

May, June.

1. Hopton ||; Barnham; Fakenham; Ixworth Thorpe and Sapiston.

2. Nayland; Stoke-by-Clare.

3. Kessingland and St. Olaves:—In Waveney, near Eastham, *H.B.C.*

4. Weybread, *Galp.*

5. Needham Market.

First record 1882. *Hind.*

3. *R. heterophyllus*, Fries. *Various leaved Water Crowfoot.*

Bab. Man. 6. Hook. St. Fl. 5. H. & S. 2. Hist. Yarm.
Herbaceous aquatic perennial; in pools and streams.

May, June.

1. Hopton|| ; Cavenham ; Thetford ; Fakenham ; Troston ; Livermere and Shelland :—Walsham, *Hb. Dun.*

2. Nayland :—Lit. Thurlow, *Hb. F.*

3. Beccles :—Oulton, *McAub.*

4. Burgate.

First notice 1847. Mrs. Dunlap.

4. *R. confusus*, Godr. *Confused Water Crowfoot.*

Bab. Man. 7. Hook. St. Fl. 6.

Herbaceous aquatic perennial ; in brackish ditches.
April to August.

3. Southwold, *Holmes.*

5. Felixstowe || and Walton ||.

Form. *R. salsuginosus*. Hiern.

Bab. Man. 7. Hook. St. Fl. 7.

5. Walton ||.

First notice 1882. Holmes.

6. *R. Baudotii*, Godr. *Baudot's Water Crowfoot*

Bab. Man. 7. Hook. St. Fl. 6.

Herbaceous aquatic perennial ; in brackish ditches.

May to September.

5. Catawade || ; Sudbourne.

Form. *R. marinus*. Fries.

Bab. Man. 7. Hook. St. Fl. 5.

3. Benacre ||. 5. Marsh ditches, Bawdsey ; Aldeburgh.

Earliest notice 1883. Hind.

7 *R. floribundus*, Bab. *Many-flowered Water Crowfoot.*

Bab. Man. 7. Hook. St. Fl. 5.

Herbaceous aquatic perennial ; in pools. May to August.

1. Mildenhall || ; Barton Mills ; Tuddenham ; West Stow ; Fakenham and Thurston :—Ixworth, *Hb. Cas.* :—Livermere, *Gray.*

2. Stoke ; Nayland and Wiston.

3. Oulton, *McAub.* :—Flixton ; St. Margaret, *Galp.*

4. Brockford, *Hb. Peck* :—Mendham :—Weybread, *Galp.*

Earliest notice 1883. Hind.

8. *R. penicillatus*, Hiern. *R. submersus*, Hiern.
Penicillate Water Crowfoot.

Bab. Man. 8. Hook. St. Fl. 5.

Herbaceous aquatic perennial; in rivers and streams.
 May to August.

1. Barton Mills; Mildenhall and West Stow.

2. Nayland ||, *Gray*:—Stoke and Wiston.

Form. *R. pseudo-fluitans*, Hiern. *R. submersus*, Hiern.
Batrachium rivulare, Schur.

Bab. Man. 8. Hook. St. Fl. 5.

1. West Row; Mildenhall ||; Barton Mills:—Lackford, *Hb. Ly.*

2. Nayland, *Gray*.

Earliest notice 1835. Miss Lathbury.

9. *R. peltatus*, Fries. *Peltate Water Crowfoot.*

Bab. Man. 8. Hook. St. Fl. 5.

Herbaceous aquatic perennial; in ponds. May to Sept.

1. Hopton ||; Troston; Cavenham; Rymer Point; Fakenham; Ixworth Thorpe and Barningham Park. A *flor. pleno* form occurs in a pool at Hopton ||.

2. Wiston.

4. Fressingfield.

First noticed 1876. Hind.

11. *R. circinatus*, Sibth. *Circinate Water Crowfoot.*

Bab. Man. 9. Hook. St. Fl. 6, 7. H. & S. 2. Hist. Yarm.

Top. Bot. Suff. E. and W. Galp.

Herbaceous aquatic perennial; in rivers and ditches.
 June to September.

1. Barton Mills; Mildenhall; Lakenheath; Livermere; Ampton; Bardwell; Ixworth; Sapiston; Knettishall; Thelnetham; Brandon and Santon Downham:—Barton, *Hb. Blk.*:—Pakenham, *C.B.*:—Stowlangtoft. *Hb. Rk.*:—Bury, *Hb. Ly.*

2. Long Melford:—Nayland and Stoke, *Gray*.

3. Bungay; Oulton; Kessingland; Beccles:—The Waveney Marshes and Flixton, *Galp.*

4. Eye; Stuston and Dunwich:—Great Glemham, *E.N.B.*

5. Baylham, *Hb. Jeffes*.

Earliest notice 1774. Sir J. Cullum.

12. *R. fluitans*, Lam. *Floating Water Crowfoot.*
 Bab. Man. 9. Hook. St. Fl. 6. H. & S. 2. Hist. Yarm.
 Top. Bot. Suff. W. Galp.
 Herbaceous aquatic perennial; in rivers. June, July.
 1. Sapiston ||; Euston: Honington; Brandon; Laken-
 heath and Mildenhall:—Icklingham; Santon Downham;
 Bury and Fornham, *Sk. ms.*
 4. Rare in the Waveney below Syleham (E.A.H.),
Galp.
 Earliest notice 1858. Sir C. J. F. Bunbury.
13. *R. Lenormandi*, Schultz. *Lenormand's Crowfoot.*
 Bab. Man. 9. Hook. St. Fl. 7. Top. Bot. Suff. E. ?
 Herbaceous perennial; on mud, or in shallow pools.
 June to August.
 'Suffolk, E., *Skepper ms.*' Top. Bot. & *E. Sk.* Without
 locality.
 Earliest notice 1862? E. Skepper.
14. *R. hederaceus*, Linn. *Ivy-leaved Crowfoot.*
 Bab. Man. 9, 10. Hook. St. Fl. 7. H. & S. 2. Hist. Yarm.
 Top. Bot. Suff.
 Herbaceous perennial; in shallow pools or on mud.
 June to September.
 1. Barnham ||; Cavenham and Wangford Heath:—
 Ixworth, *Hb. Cas.*:—Bury, *Sk. ms.*
 2. Nayland.
 3. Hopton ||; Lowestoft, *Hbb. F. & Sk.*
 4. Walberswick, *Holmes*; Snape Bog, *H. & S.*:—Red-
 grave, *Collins.*
 5. Bergholt, *H. & S.*
 Earliest notice 1834. Mrs. Casborne.
15. *R. sceleratus*, Linn. *Celery-leaved Crowfoot.*
 Bab. Man. 10. Hook. St. Fl. 8, 9. H. & S. 2. Hist. Yarm.
 Hist. Wher. Top. Bot. Suff. E. and W. Galp.
 Herbaceous annual; in muddy places. June to Sept.
 A very minute and slender form of this from the banks
 of the Lark, Bury, is preserved in *Hb. Wils.*, approaching
 form *c. R. minimus*. D.C.
 Frequent in all the districts.
 Earliest notice 1774. Sir J. Cullum.

16. *R. Flammula*, Linn.*Lesser Spearwort.*

Bab. Man. 10. Hook. St. Fl. 8. H. & S. 2. Hist. Fram.
 Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W. Galp.

Herbaceous perennial; frequent in boggy places.

June to August.

Occurs in all the districts.

Form. *R. pseudo-reptans*, Syme.

Lond. Cat. 25 b.

1. Thetford Warren ||; Lakenheath and Ixworth
 Thorpe; Broadmere, Troston. A small erect form occurs at
 Wangford ||.

2. Nayland, *Gray*.

3. Belton and Benacre:—Oulton, *McAub*.

Earliest notice 1773. Sir J. Cullum.

18. *R. Lingua*, Linn.*Great Spearwort.*

Bab. Man. 11. Hook. St. Fl. 8. H. & S. 2. Hist. Fram.
 Hist. Yarm. Hist. Bury. Top. Bot. Suff. E. and W. Galp.

Herbaceous perennial; in fens and marshes. Somewhat
 rare; but more abundant in Suffolk than in most Counties.

May to August.

1. Hopton Fen and Lakenheath; Santon Downham;
 West Row, Mildenhall, *C.B.*:—Cavenham, *W.J.*:—Tim-
 worth, *Sir T. G. Cullum*.

2. Cornard Mere, near Sudbury, *Bot. Soc., Lon.*

3. Oulton, *McAub.*:—Belton, *Phyt. N.S.* 1862:—Somer-
 leyton and Benacre Broad, *Sk. ms.*:—Beccles, *Crabbe*:—Bun-
 gay, *Woodward*.

4. Redgrave Fen ||:—Framlingham, *Crabbe*:—Hoxne,
 (J.C.) *Galp*.

5. Shingle Street, *Holmes*:—Between Baylham and
 Needham, *Kirby* in *Hb. F.*:—Bricet Wood, *H. & S.*:—Bram-
 ford and Baylham, *Miller*.

First notice 1798. Rev. G. Crabbe.

19. *R. Ficaria*, Linn.*Pilewort, Lesser Celandine.*

Bab. Man. 11. Hook. St. Fl. 10. H. & S. 2. Hist. Yarm.
 Top. Bot. Suff. E. and W. Hist. Wher. Galp.

Herbaceous perennial, with club-shaped tubers attached
 to the roots; usually in damp soil and shady banks.

April, May.

Common in all the districts. Both forms, *incumbens* and *divergens*, are found.

First record 1831. Hb. Wilson.

20. *R. auricomus*, Linn.

Goldilocks

Bab. Man. 11. Hook. St. Fl. 8. H. & S. 3. Top. Bot. Suff. E. and W. Hist. Wher. Galp.

Herbaceous perennial, having a preference for heavy soil. The petals are frequently imperfect, or partly wanting.

April, May.

1. Ixworth Thorpe ||; Bardwell and Honington; Barton, *Hb. Blk.*:—Hardwick, *Hb. Sk.*:—Walsham, *Hb. Dun.*:—Woolpit, *Hb. Rk.*:—Nowton, *Hb. Wils.*

2. Nayland; Hitcham, *Hb. Hens.*:—Thurlow, *Hb. F.*:—Cockfield, *W.J.*:—Long Melford, *J.F.W.*

3.—Oulton, *McAub.*:—Flixton, *Galp.*:—Gunton Hall Wood and Lowestoft, *G. Clowes in Hb. Geld.*

4. Great Glemham, *E.N.B.*: Brockford, *Hb. Peck.*:—Oakley and Burgate, *Collins.*:—Mendham, *Galp.*

5. Ashbocking, *F.C.S.*:—Wherstead, *Haward.*:—Bramford Lane, Ipswich, *I.S.S. ms.*

First record 1774. Sir J. Cullum.

21. *R. acris*, Linn.

Upright Crowfoot, Buttercup.

Bab. Man. 11. Hook. St. Fl. 9. H. & S. 3. Hist. Yarm. Galp. Top. Bot. Suff. E. and W. Hist. Wher.

Herbaceous perennial, of erect habit, in meadows and pastures; very common.

June, July.

In all the districts. In *Hb. Hens.* is a *flore pleno* specimen from Hitcham.

Var. *R. tomophyllus*, Jord.

Bab. Man. 11. Hook. St. Fl. 9.

1. Wangford ||; Brandon; also a specimen with remarkably minute flowers, Wangford ||.

First notice 1773. Sir J. Cullum.

22. *R. repens*, Linn.

Creeping Crowfoot.

Bab. Man. 12. Hook. St. Fl. 9. H. & S. 3. Hist. Yarm. Galp. Top. Bot. Suff. E. and W. Hist. Wher.

Herbaceous perennial, propagated by stolons and seeds. In pastures, cultivated ground, and waste places.

May to August.

Very common in all the districts, A specimen *flore pleno*, and another with two flowers combined in *Hb. Hens.*, from Hitcham.

First notice 1774. Sir J. Cullum.

23. *R. bulbosus*, Linn. *Bulbous-rooted Crowfoot.*
Early Buttercup.

Bab. Man. 12. Hook. St. Fl. 9. H. & S. 3. Hist. Yarm.
Top. Bot. Suff. E. and W. Hist. Wher. Galp.

Herbaceous perennial, with enlarged solid spherical root.
In meadows and pastures. May, June.

Common in all the districts. Form *fl. pleno* from Nowton, *Hb. Wils.*

First notice 1798. Rev. G. Crabbe.

24. *R. hirsutus*, Curt. *R. Sardous*, Crantz.
Pale hairy Crowfoot.

Bab. Man. 12. Hook. St. Fl. 10. H. & S. 3. Hist. Yarm.
Top. Bot. Suff. E. and W. Galp.

Herbaceous annual or biennial; in moist pastures and cornfields. Not very frequent. June to October.

1. Fakenham; Honington:—Drinkstone and Rattlesden, *Hb. F.*:—Pakenham, *Hb. Rk.*:—Barton, *Mrs. Parker*:—Bradfield, St. Geo., *Mrs. Carss*:—Bury, *Hb. Wils.*

2. Stoke-by-Nayland ||; Cockfield, *W.J.*:—Hitcham, *Hbb. Hens. & Sk.*

3.—Benacre:—Oulton, *McAub.*:—Bungay, *Stock*:—Breydon, *Phyt. N.S.*, 1862:—Southwold, *Holmes*:—St. Margaret's, *Galp.*

4. Dunwich ||; Botesdale:—Sizewell, *E.N.B.*:—Framlingham, *Crabbe*:—Weybread, *H.B.C.*:—Brome and Stuston, *Collins.*

5. Catawade:—Ashbocking, *F.C.S.*:—Aldeburgh, *T.W.G.*:—Felixstowe, *Haward.*

Var. *R. parvulus*, Linn. *Dwarf hairy Crowfoot.*

Bab. Man. 12.

3. Burgh Castle ||; Belton:—Southtown, *Hb. D.*

5. Catawade ||; Aldeburgh; Orford.

First notice 1798. Rev. G. Crabbe.

25. *R. parviflorus*, Linn. *Small-flowered Crowfoot.*

Bab. Man. 12. Hook. St. Fl. 10. H. & S. 3. Top. Bot. Suff.
E. and W.

Creeping annual; somewhat rare; on dry banks.

May, June.

2. Stoke-by-Nayland || :—Hadleigh, *Prof. Hens.*

3. Gorleston :—Barnby, *Holmes* :—Oulton, *McAub.*

4. Stuston, *Collins.*

5. Landguard Fort || :—Hemley, *Holmes* :—Bergholt,
H. & S.

Earliest notice 1774. Sir J. Cullum.

26. *R. arvensis*, *Linn.*

Corn Crowfoot.

Bab. Man. 12. Hook. St. Fl. 10. H. & S. 3. Top. Bot.

Suff. E. and W. Galp.

Erect annual; in cornfields; not plentiful.

May to July.

1. Hardwick; Stanton; Thurston :—Ixworth, *Hb. Cas.* :—Felsham, *Hb. Sk.* :—Culford Heath, *Gray* :—Bury, *H. & S.* :—Nowton, *Hb. Wils.* :—Walsham, *Miss Jeffes.*

2. Stoke-by-Nayland || :—Hitcham, *Hb. Hens.* :—Cockfield, *Hb. Blk.* :—Lit. Thurlow, *Herb. F.*

3. Kessingland :—Oulton, *McAub.* :—Flixton, *H.B.C.*

4. Westleton || ; Botesdale. :—Gt. Glemham, *E.N.B.* :—Framlingham, *Crabbe* :—Hoxne and Oakley, *Collins* :—Weybread, *Galp.*

5. Otley, *E.N.B.* :—Grundisburgh, *T.H.* :—Ashbocking, *F.C.S.* :—Creeting, *Hb. Jeffes.*

Earliest notice 1849. Prof. Henslow.

Caltha, *Linn.*

1. *C. palustris*, *Linn.*

Marsh Marigold.

Bab. Man. 13. Hook. St. Fl. 11. H. & S. 3. Hist. Fram.

Hist. Yarm. Top. Bot. Suff. E. and W. Galp. Hist. Wher.

Succulent herbaceous perennial; very frequent in marshes. Blossoms March to May, and occasionally much later.

In all the districts.

Var. *C. Guerangeri*, Bor. *Gueranger's Marsh Marigold.*

Bab. Man. 13. Hook. St. Fl. 11.

1. Stowlangtoft, *Hb. Rk.*

2. Polstead Marsh ||.

Earliest notice 1798. Rev. G. Crabbe.

[*Eranthis*, *Salisb.*

1. *E. hiemalis*, *Salisb.* *Winter Aconite.*
 Bab. Man. 13. Hook. St. Fl. 12. Galp. 47.
 Herbaceous perennial, with tuberous root; in plantations, where it has been introduced, and is becoming naturalized. January to April.
 1. Honington ||; Bardwell; Stanton; Troston.
 2. Cockfield *C.B.*:—Stoke-by-Nayland, *Gray.*
 3. In Flixton Long Plantation (*E.A.H.*), *Galp.*
 Earliest notice 1876. Hind.]

Helleborus, *Linn.*

1. *H. viridis*, *Linn.* *Green Hellebore, Bearsfoot.*
 Bab. Man. 13. Hook. St. Fl. 12. H. & S. 3. Galp. 47.
 Cyb. Br. Supp.
 Herbaceous perennial; chiefly in thickets on chalky soil. March to May.
 1. In a wood near Beyton, *Dr. Bromfield*:—About Bury, *N.B.G.*:—Felsham, *Dr. White.*
 2. Hitcham, *Hb. Hens.*:—Kettlebaston, *Dr. White.*
 3. Oakwood near Bungay, *F. Spalding.*
 4. Benhall, a small patch by the river, naturalized, *E.N.B.*:—Hoxne, *Collins.*
 5. Blunt's wood, near Woodbridge, *F. Spalding.*
 Earliest notice 1805. Woodward.
2. *H. foetidus*, *Linn.* *Stinking Hellebore, Setterwort.*
 Bab. Man. 13, 14. Hook. St. Fl. 12. H. & S. 3. Cyb. Br. Supp. Galp. 47.
 Herbaceous perennial; in thickets on chalky soil. March, April.
 1. Felsham, *C.B.*:—Barton, *Hb. Blk.*:—Lit. Saxham, *Hb. Rk.*:—Old Newton, *Hb. Cas.*:—Hardwick, *Sir J. Cullum*, 1773:—Rattlesden, *Mrs. Parker*:—Haughley, *Dr. White*:—Shelland, *J. Rasor*:—Ickworth, *H. & S.*:—Rougham, *Sk.ms.*:—Wetherden, *Mrs. Terry.*
 2. Near Lavenham, *Sk.ms.*:—Brettenham; In a hedge between Lavenham and Acton, *C.B.*:—Wood near Hadleigh, *F. Spalding*:—Kettlebaston, *W.J.*:—Hitcham, *Hb. Hens.*:—Brent Eleigh, *Mrs. Terry.*

3. St. Margaret's and St. Cross, Southelmham, *Holmes* :—Corton, *Hb. Salm.*

4. Framlingham, likely planted, *Crabbe* :—Brundish, *J. Sherard, Dill.* :—Cransford and Laxfield, *Ms. Davy* :—Wetheringsett, *Hb. Peck* :—Mendlesham, *Hb. Salm.*

5. Hemingstone, *T.B.* :—Battisford, *Miss Jeffes.*

Earliest notice 1724. *J. Sherard.*

Aquilegia, *Linn.*

1. *A. vulgaris*, *Linn.*

Columbine.

Bab. Man. 14. Hook. St. Fl. 13. H. & S. 3. Cyb. Br. Supp. Galp. 47.

Herbaceous perennial; in woods and heaths, and occasionally as a stray by hedges; somewhat rare. May, June.

1. Apparently native in a small wood at Ixworth Thorpe ||; as a stray at Bardwell and Troston :—Barton, *Hb. Blk.* :—Ickworth, *Hb. Rk.* :—Hawstead, *Sir J. Cullum.* :—Hessett and Elmswell, *J. Rasor* :—Wetherden, *Mrs. Terry* :—between Sicklesmere and Hawstead, *Mrs. Carss* :—Risby, *Hb. Ly.* :—Also in Hopton Fen, *Miss E. Downton.*

2. Hitcham, *Hb. Hens.* :—Cockfield, *H. & S.*

3. St. Margaret's, *Holmes* :—Bungay, *H. & S.*

4. Huntingfield, *Holland* :—Weybread, *Hb. Jeffes* :—Yaxley, *W. H. Sewell** :—Old walls, Abbey, Hoxne, *Collins.*

5. Barking, *T.B.* :—Woodbridge, *Moor* :—Little Bricet, *H. & S.*

Earliest notice 1775. *Sir J. Cullum.*

* "I have been so interested in the plant from its having been finely and accurately painted in pre-Reformation Glass, in Gislegham Church." *W.H.S.*

Delphinium, *Linn.*

*1. *D. Ajacis*, *Gay.*

Rocket Larkspur.

Bab. Man. 14. Hook. St. Fl. 13. H. & S. 4. Cyb. Br. Supp. Hist. Bury.

Cornfield annual on chalk or sandy soil; not common.

June, July.

1. Barton Mills ||; Livermere and Sapiston; Bury, *Sir J. Cullum*, 1773 :—'Barton Mills abundantly, Mr. Bryant,' *Dill. Ray. Hb. Ox.* :—Mildenhall, 'Formerly frequent on the

chalk lands, especially to the west of the town. Now almost entirely extirpated by improved farming, *Sir C.J.F.B.*:—Brandon, *Miss Bell*:—Barnham, *Gray*:—Hawstead, *Sir J. Cullum*:—Worlington, *Miss Bullender*:—Rattlesden, *Mrs. Parker*:—Lakenheath, *Hb. Sk.*:—Barton and Tuddenham, *H. & S.*:—Stowlangtoft, *Hb. Rk.*:—East Gate, Bury, *Hb. Turn.*
 2. Nayland:—Hitcham, *Hb. Hens.*:—Sudbury, *Fulcher* and *J.S.H.*

4. Mellis, *C. J. Ashfield.* 5. Aldeburgh, *Crabbe.*
 Earliest record 1764. Rev. H. Bryant.

Aconitum, Linn.

†1. *A. Napellus*, Linn. *Monkshood.*

Bab. Man. 14. Hook. St. Fl. 13, 14. Galp. 48.

Herbaceous perennial, not native, only a stray from cultivation; river banks; very rare. June, July.

3. St. Peters, Southelmham, *Holmes.* Habitat now destroyed.

Earliest notice 1840? Rev. E. A. Holmes.

BERBERIDEÆ.

Berberis, Linn.

1. *B. vulgaris*, Linn. *Barberry.*

Bab. Man. 15. Hook. St. Fl. 15. H. & S. 4. Hist. Fram.

Hist. Yarm. Top. Bot. Suff. E. and W.

A spinous shrub, preferring, but not confined to, a chalky soil. For an account of *Æcidium Berberidis*, and its supposed connection with corn mildew, see W. G. Smith's 'Diseases of field and garden crops,' pp. 159-207. Thickets and hedges. May, June.

1. Cavenham ||; Lackford; Fakenham; Honington; Ixworth Thorpe; Pakenham; Timworth and Shelland:—Bury, *Hbb. Blk. Wils. & Sk.*:—Norton, *Hbb. Cas. & Rk.*:—Felsham, *Herb. F.*:—Walsham, *Hb. Dun.*:—Tuddenham, *Sk. ms.*:—Near Bury, *Miss Turner.*

2. Hitcham, *Hb. Hens.*

3. Lound, *Wigg*:—Lowestoft, *F. Sk.*

4. Huntingfield, *Holland*:—Framlingham, *Crabbe*:—Woodbridge, *Hb. Ly.*

5. Burstall, *F. Fox.*:—Market Needham, *Hb. Jeffes.*

Earliest notice 1798. Rev. G. Crabbe.

[*Mahonia aquifolia*, Nutt. Two small plants in a hedge of a pasture field in Hartest, far from a dwelling.

Earliest notice 1887. Hind.]

NYMPHÆACEÆ.

Nymphæa, Linn.

1. *N. alba*, Linn.

White Water Lily.

Bab. Man. 16. Hook. St. Fl. 16. H. & S. 4. Hist. Fram.
Hist. Bury. Top. Bot. Suff. E. and W. Galp. 48.

Showy aquatic perennial; in rivers, fen-pools, and ponds. June, July.

1. Knettishall, in the Little Ouse ||; at Honington; Sapiston and Ixworth in the Upper Ouse; Troston:—at Icklingham and in fen pools, especially in Bombay Fen between Mildenhall and Eriswell, *Sir C.J.F.B.*:—Barton, *Hb. Blk.*:—Stowlangtoft, *Hb. Rk.*:—Culford Lake, *Gray*:—in fish-pond or “leech-pool,” Lackford Bridge; West Stow and Lakenheath; in Miller’s bog near Wangford, *Sk. ms.*:—Gt. Finborough, *H. & S.*:—Bury, *Hb. Wils.*

2. Nayland.—Stour at Clare, *Hb. F.*:—Sudbury, *Fulcher & J.S.H.*:—Cornard Mere, *Cyb. Br.*

3. Bungay:—Fritton, *Phyt.* 1862.:—Oulton Broad, *E. Sk.*:—Flixton, *Galp.*

4. Redgrave Fen:—Syleham, *H.B.C.*:—Mendham, *Galp.*

5. Holbrooke; Aldeburgh:—Barham, *Hb. F.*:—Gt. Bealings, *Moor*:—Woodbridge, *H.M.S.*

Var. b. *N. minor*, Syme.

2. Cornard Mere, *Cyb. Br.*

Earliest notice 1774. Sir J. Cullum.

Nuphar, Linn.

1. *N. lutea*, Sm.

Yellow Water Lily, Brandy Bottle.

Bab. Man. 16. Hook. St. Fl. 15. H. & S. 4. Hist. Yarm.
Top. Bot. Suff. E. and W. Galp. 48.

Showy aquatic perennial; in rivers and ponds; more common than the preceding, C.B. July.

1. In Litt. Ouse at Knettishall || and Thetford; in Upper Ouse at Euston, Sapiston, Bardwell and Ixworth; at

Hopton and Lakenheath :—in the Eriswell Lode and in the Lark between Mildenhall and Tuddenham, *Sir C.J.F.B.* :—Pakenham, *Hb. Cas.* :—Stowlangtoft, *Hb. Rk.* :—Culford Lake, *Gray* :—Barton, *W.J.* :—Bury, *Hb. Wils.* :—Fornham, *Hb. Ly.*

2. In the Stour, Milford, Wixoe and Stoke-by-Clare :—Nayland, *Gray* :—Whatfield, *E.F.L.*

3. St. Olave's, Beccles, Mettingham and Kessingland :—Fritton, *Phyt.* 1862 :—Oulton Broad, *E. Sk.*

4. Redgrave ; Wortham Ling ; Oakley and Walpole :—Gt. Glemham and Sternfield, *E.N.B.* :—Wenhaston, *W.J.* :—In the Weybread Beck, *Galp.*

5. Bramford :—Aldeburgh, *Hele* :—Woodbridge, *H.M.S.* :—Ipswich, *W.L.N.* :—Baylham, *T.B.* :—Needham Market, *E. Clowes.*

First notice 1775. Sir J. Cullum.

PAPAVERACEÆ.

Papaver, *Linn.*

†1. *P. Argemone*, *Linn.* *Small Corn Poppy*

Bab. Man. 17. Hook. St. Fl. 17. H. & S. 5. Hist. Fram.
Hist. Yarm. Hist. Bury. Hist. Wher. Top. Bot. Suff. E. and W.
Galp. 48.

An annual ; usually found on cultivated land, but not so common as some other species ; frequent on chalky soil.

June, July.

1. Honington || ; Thetford ; Flempton and Lakenheath :—On Barton Hill and between Mildenhall and West Row, *Sir C.J.F.B.* :—Bury, *Hb. Sk.* :—Pakenham, *Hb. Cas.* :—Stowlangtoft, *Hb. Rk.* :—Culford Heath, *Blackett.* :—Barton. *Sir C.J.F.B.* :

2. Nayland :—Cockfield, *W.J.* :—Stoke, *Gray* :—Gt. Thurlow, *Herb F.* :—Wiston, *C.B.* :—Whepstead, *Miss Turner*

3. Gorleston, near Lake Lothing :—Lowestoft, *Sk.ms.* :—Oulton, *McAub.*

4. Dunwich :—Gt. Glemham, *E.N.B.* :—Framlingham, *Crabbe* :—Mendham, *Galp.* :—Palgrave and Stuston, *Collins.*

5. Bawdsey :—Wherstead, *Haward* :—Gt. Bealings, *Moor* :—Coddendam, *F. Fox* :—Grundisburgh, *T.H.* :—Ipswich, *W.L.N.*

Earliest record 1774. Sir J. Cullum.

†2. *P. hybridum*, Linn. *Hybrid Corn Poppy.*

Bab. Man. 17. Hook. St. Fl. 17. H. & S. 5. Hist. Yarm.
Hist. Bury. Top. Bot. Suff. E. and W.

Annual weed; in sandy fields; rare. June, July.

1. "The Wammell footpath, by the river from Mildenhall to West Row," || *Sir C.J.F.B.*:—Lakenheath, *Hb. Sk.*:—Saxham Road, Bury, *Sir T. G. Cullum*:—Higham and Tuddenham, *W.J.*

3. Bradwell Mill, *D. Turner*:—Gorleston, *Phyt.*, 1862:—Lowestoft, *H. & S.*:—Pakefield, *H.D.G.*, and Burgh Castle, *H. G. Glasspoole in Hb. Geld.*

5. Felixstowe, *H. & S.*

First notice 1804. *Sir T. G. Cullum.*

†3. *P. Rhœas*, Linn. *Common Corn Poppy,*
Corn Rose.

Bab. Man. 17. Hook. St. Fl. 17. H. & S. 4. Hist. Yarm.
Hist. Fram. Hist. Wher. Galp. 48. Top. Bot. Suff. E and W.

Annual showy weed; very common in cornfields, especially on light soil. June, July.

In all the districts.

Var. *P. strigosum*, Boenningh.

Bab. Man. 17. Hook. St. Fl. 17.

1. Honington ||:—Culford Heath, *Gray*:—Bury, *Hb. Wils.*

2. Nayland, *Gray.*

3. Bradwell, *J. Priest in Hb. Geld.*

Earliest record 1773. *Sir J. Cullum.*

†4. *P. dubium*, Linn. *Long-headed Corn Poppy.*

Bab. Man. 17, 18. Hook. St. Fl. 17. H. & S. 4. Hist. Fram.
Hist. Yarm. Hist. Bury Hist. Wher. Galp. 48. Top. Bot.
Suff. E. and W.

Annual showy weed; frequent in cornfields on light soil. June, July.

In all the districts.

First record 1804. *Sir T. G. Cullum.*

†5. *P. Lecoqii*, Lamott ? *Lecoq's Poppy.*

Bab. Man. 18. Hook. St. Fl.

Annual weed; on chalky soil and walls; rare.

June, July.

1. Risby, *Hb. Sk.*

2. Cockfield, *C.B.*, to whom it was pointed out by Prof. C. C. Babington.

First notice 1860. E. Skepper.

†6. *P. somniferum*, *Linn.* *Official Poppy.*

Bab. Man. 18. Hook. St. Fl. 18. Hist. Yarm. Galp. 48.

Annual herb; a stray from cultivation; not common.
July.

1. Honington ||; Mildenhall.
2. Wiston, *Gray*.
3. Bungay and Fritton:—Gorleston, *Phyt. N.S.* 1862.
4. Botesdale; Dunwich:—Mendham, *H.B.C.*
5. Bramford and Stutton.

First notice 1834. Paget.

Glaucium, *Tourn.*

1. *G. luteum*, *Scop.* *Yellow Horned Poppy.*

Bab. Man. 18, 19. Hook. St. Fl. 19. H. & S. 5. Hist. Yarm.
Top. Bot. Suff. E.

Herbaceous biennial; frequent on sandy sea-shores.

June to August.

3. Benacre; Covehithe and Lowestoft:—South Cove,
Trimmer:—Southwold, *Hbb. Rk. & Man., Ms. Davy*.

4. Dunwich ||; Sizewell:—Walberswick, *Trimmer*.

5. Felixstowe; Landguard Fort; Bawdsey:—Near
Sutton, *Sir J. Cullum*:—Aldeburgh, *Hb. F.*

First notice 1763. T. Martyn.

Chelidonium, *Linn.*

1. *C. majus*, *Linn.* *Celandine.*

Bab. Man. 19. Hook. St. Fl. 18. H. & S. 5. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. and W. Galp. 49.

Herbaceous perennial; tolerably frequent on hedge
banks and in waste places. May to August.

Occurs in all the districts.

First notice 1775. Sir J. Cullum.

FUMARIACEÆ.

Corydalis, *DeCand.**C. solida*, *Hook.**Tuberous Corydalis.*

Bab. Man. 19. Hook. St. Fl. 21, 22.

Herbaceous perennial, with a tuberous root; in thickets, where it has at some time been introduced. April, May.

2. Nayland, || *Gray.*3. Near Oulton Broad, *McAub.*

Earliest notice 1880. Rev. J. D. Gray.]

*1. *C. lutea*, *DC.**Yellow Corydalis.*

Bab. Man. 19, Hook. St. Fl. 21. H. & S. 5.

Herbaceous perennial growing on walls; an escape from cultivation. May to August.

1. Sapiston ||; Fakenham; Livermere; Norton; Mil-denhall and Thetford:—Harleston, *Mrs. Terry*:—Bury, *Sk.ms.*

2. Nayland.

4. Darsham:—Wenhaston, *W.J.*:—Hoxne Abbey, *Collins.*

5. Playford, *Moor.*

First notice 1840? Rev. E. J. Moor.

2. *C. claviculata*, *DC.**White climbing Corydalis.*

Bab. Man. 19, 20. Hook. St. Fl. 21. Top. Bot. Suff. E. (W ?)
Hist. Wher.

Climbing herbaceous perennial; on bushy hills; rare. June, July.

4. Friston Decoy, *Hele*:—Darsham, *Ms. Davy.*

5. Aldeburgh, *Holmes*:—near Iken Wood, *E.N.B.*:—Sudbourne Wood, *Hele*:—between Bergholt and Brantham, *H.C.W.*, *Geog. Distrib. Brit. Plants*:—Dodnash Wood, *W.L.N.*:—Wherstead, *Haward*:—Bentley, in plenty, *Miller*:—Woodbridge, *Hb. Ly.*

First notice 1813. *Davy.*

[*C. capnoides*, Pers. Long established on a wall at Troston Hall.]

Fumaria, Linn.

1. *F. pallidiflora*, Jord. *Rampant Fumitory.*

Bab. Man. 20. Hook. St. Fl. 20. H. & S. 5. Top. Bot. Suff. E.
Hist. Wher. Galp. 49.

Climbing annual; borders of fields; not frequent.

June to September.

3. Burgh Castle, *Phyt. N.S.* 1862.

5. Felixstowe, *Hb. F.*:—Alderton, *Holmes*:—Holbrooke, *Moor*:—Walton, *Sk. ms.*:—Wherstead, *Haward*:—Hemley Churchyard and Roads near Walton, *Ms. Davy*.

Var. *b.* *F. Boræi*, Jord.

Bab. Man. 20. Hook. St. Fl. 20.

3. Sea-wall, Breydon Water, || *C.B.*

4. Weybread, *H.B.C.*

Earliest notice 1840? Rev. E. J. Moor.

2. *F. confusa*, Jord.

Fumitory.

Bab. Man. 20. Hook. St. Fl. 20.

Annual weed; borders of fields; distribution in Suffolk
not yet ascertained.

June to September.

1. Honington.

3. Bradwell ||; Hopton ||; Gorleston.

First notice 1882. Hind.

3. *F. muralis*, Sond.

Wall Fumitory.

Bab. Man. 20. Hook. St. Fl. 20.

Annual weed on cultivated land; tolerably frequent.

June to September.

1. Fakenham ||; Mildenhall; Honington; Bury; Lit. Livermere; Thelnetham; Higham:—Stowlangtoft, *Hb. Rk.*:—Walsham, *Hb. Dun*.

2. Clare and Stoke-by-Nayland.

3. Belton.

First notice 1875. Hind.

4. *F. officinalis*, Linn.

Officinal Fumitory.

Bab. Man. 20, 21. Hook. St. Fl. 20. H. & S. 5. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. and W. Galp. 49.

Annual weed; common in cultivated land.

May to September.

In all the districts.

First notice 1775. Sir J. Cullum.

5. *F. densiflora*, DC. *Dense-flowered Fumitory.*

Bab. Man. 21. Hook. St. Fl. 20.

Annual weed ; on chalky soil. June to September.

1. Plentiful in a chalk pit at West Row, Mildenhall, || along with the two following species ; Higham.

First notice 1887. Hind.

6. *F. parviflora*, Lam. *Small-flowered Fumitory.*

Bab. Man. 21. Hook. St. Fl. 21. H. and S. 5. Hist. Yarm.

Top. Bot. Suff. E. and W.

Annual weed, preferring a chalky soil ; rare.

June to September.

1. Lakenheath || and West Row, Mildenhall || ; Ex-
ning :—Near Kennet, C.B. :—Near Westley Bottom, Rev.
G. R. Leathes in *Hb. Rk.* :—Newmarket, Rev. J. Dalton.

3. 'Very rare, a weed in gardens,' Paget. No locality
is given ; it is therefore doubtful whether the reference may
not be to Norfolk. Not unlikely *F. muralis* may have been
the species seen.

5. In several places near Ipswich, H.C.W., *Geog.*
Distrib. Brit. Plants.

Earliest notice 1805. Rev. J. Dalton.

7. *F. Vaillantii*, Lois. *Vaillant's Fumitory.*

Bab. Man. 21. Hook. St. Fl. 21. Cyb. Br. Supp.

Annual weed ; very rare ; in cornfields and on heaths.

June to September.

1. 'Now and then among the corn beside the footpath
from Mildenhall to West Row ||, Sir C.J.F.B. :—Edge of
Heath, Wangford ||.

Earliest notice 1873. Sir C. J. F. Bunbury.

CRUCIFERÆ.

Cheiranthus, Linn.

*1. *C. Cheiri*, Linn.

Wallflower.

Bab. Man. 25. Hook. St. Fl. 24.

Hist. Yarm.

H. & S. 5.

Galp.

Shrubby herbaceous perennial ; a denizen on old walls.
Found in Abbey Gardens before the Reformation ; now
naturalized on their walls.

April, May.

1. Old walls, Fornham All Saints ; Ixworth and Thetford :—Bury Abbey, *Sir J. Cullum, C.B.*
3. Bungay and Mettingham Castles ; Beccles.
4. Framlingham and Sibton Abbey :—Leiston Abbey, *Moor* :—Crowe Hall, *C.B.*
5. The Church and Castle, Orford.
Earliest notice 1773. *Sir J. Cullum.*

Nasturtium, *R. Brown.*

1. *N. officinale, R. Brown.* *Water Cress.*
Bab. Man. 25. Hook. St. Fl. 24, 25. H. & S. 6. Hist. Yarm.
Top. Bot. Suff. E. and W. Hist. Wher. Galp. 49
 Perennial sapid herb ; abundant in brooks and ditches.
June, July.
 Occurs in all the districts.
 Var. *N. microphyllum, R.*
Bab. Man. 25. Hook. St. Fl. 25.
 1. Thurston || ; Santon Downham :—Stowlangtoft,
Hb. Rk. :—Bury, Hb. Wils.
 Var. *N. siifolium, R.*
Bab. Man. 25. Hook. St. Fl. 25.
 1. Coney Weston, *E.F.L.*
 2. Nayland.
 4. Between Redgrave and Wortham.
 Earliest notice 1773. *Sir J. Cullum.*
2. *N. silvestre, R. Brown.* *Water Rocket.*
Bab. Man. 26. Hook. St. Fl. 25. H. & S. 6. Top. Bot. Suff. E.
Galp. 49.
 Perennial herb ; in wet places and banks of streams ;
 not frequent. June to August.
 1. Near the margin of Rougham Canal, *H. & S. ;*
Bury, Herb. F. ; Rushbrooke, Sk. ms.
 3. St. Cross, *Holmes* :—Lowestoft, *Herb. Sk. :—Burgh*
Castle, W. Winter, Phyt. N.S. 1862 :—Bungay, Sir J. E. Smith.
 4. Framlingham, *Crabbe.*
 Earliest record 1798. *Rev. G. Crabbe.*
3. *N. palustre, DC.* *Small Water Radish.*
Bab. Man. 26. Hook. St. Fl. 25. H. & S. 6. Hist. Yarm.
Top. Bot. Suff. E. and W. Galp. 49.
 Perennial herb ; in wet places ; not very frequent.
June to September.

1. Troston; Ixworth Thorpe || :—Gt. Ashfield, *Hb. Rk.*:—Barton Mere, *H & S.*:—River-side by Haughley Church, *Blackett*:—Mildenhall, *Hb. Dun.*
2. Hitcham, *Hb. Hens.*:—Cockfield, *Sk. ms.*
3. Bungay, *M.M. & With.*:—Marshes, Burgh Castle, *W. Winter, Phyt. N.S.* 1862 :—Oulton, *McAub.*
4. Benhall; Framlingham, *E.N.B.*:—Mendham, *Galp.*
5. Ipswich ||. A stray on ballast.
Earliest notice 1800. Woodward.

Barbarea, *R. Brown.*

1. *B. vulgaris*, *R. Brown.* *Winter Cress, Yellow Rocket.*
Bab. Man. 26. *Hook. St. Fl.* 25, 26. *H. & S.* 6. *Hist. Yarm.*
Hist. Wher. *Top. Bot. Suff. E. and W.* *Galp.* 50.
Herbaceous perennial? frequent on ditch banks and margins of streams. June to August.
Found in all the districts. The form *B. arcuata*, Reich., was gathered at Santon Downham in June, 1887, by the Rev. J. D. Gray.
First record 1774. Sir J. Cullum.
2. *B. stricta*, *Andrz.* *Narrow-leaved Winter Cress.*
Bab. Man. 26. *Hook. St. Fl.* 26.
Herbaceous biennial; on the edge of streams; rare. May to August.
 1. Thurston ||; Fornham, *Hb. Blk.*
 2. Wixoe and Stoke-by-Nayland.
First notice 1840. Lady Blake.
- *3. *B. intermedia*, *Bor.* *Intermediate Winter Cress.*
Bab. Man. 26. *Hook. St. Fl.* 26.
Herbaceous biennial; found on heap of mud and gravel from the mill race at Nayland, 1885. May to August.
 2. Nayland || *Gray.*
First notice 1885. Rev. J. D. Gray.
- †4. *B. præcox*, *R. Brown.* *Early Winter Cress.*
Bab. Man. 26. *Hook. St. Fl.* 26. *Hist. Yarm.*
Biennial herb; a frequent escape from cultivation. April to October.
 1. Chalk pit behind the Hospital, Bury ||; Railway

banks, Higham ; Honington ; Sapiston and Culford Heath :
—Barton, *Sir C.J.F.B.*

3. 'Hedge by Bradwell Marshes,' *Wigg.*

Earliest notice 1805. *Wigg.*

Arabis, *Linn.*

1. *A. hirsuta*, *R. Brown.* *A. sagittata*, *DC.*

Hairy Rock Cress.

Bab. Man. 27. Hook. St. Fl. 27. H. & S. 6. Hist. Bury.

Top. Bot. Suff. E. and W.

Herbaceous biennial ; on dry or chalky banks ; not
common. July to August.

1. Ingham || ; Market Weston || ; Cavenham ; Lack-
ford ; Risby ; Lakenheath ; Wangford ; Brandon and
Barnham :—Mildenhall, *Hb. Blk.* :—Stanton, *Hb. Cas.* :—
Wall of the Churchyard, Fornham St. Martin, *Sir C.J.F.B.*
:—Risby, *C.B.* :—Thurston, *Hb. Sk.* :—Bury, *Sir J. Cullum*
in Hb. Wils. :—West Stow and Tuddenham, *H. & S.* :—on a
wall at Barton Mills, and Santon Downham, *Sk. ms.* :—near
Elveden Hall, *A.B.*

2. Nayland and Wiston.

4. Wortham, *Collins.*

5. Sudbourne, *Crabbe.*

Earliest notice 1774. *Sir J. Cullum.*

5. *A. perfoliata*, *Lam.* *Perfoliate Rock Cress.*

Bab. Man. 27. Hook. St. Fl. 27. H. & S. 6. Hist. Bury.

Top. Bot. Suff. E. Hist. Wher. Galp. 50.

Erect herbaceous biennial ; well distributed through
the County, though not usually plentiful in one spot ;
by hedges. May to July.

1. Fakenham || ; Troston ; Honington ; Sapiston ;
Rushford and Wangford :—Pakenham, *Herb. Dun.* :—Thur-
ston, *Hbb. Rk. & Sk.* :—Rougham, *Hb. Blk.* :—Roadside be-
tween Barton and Rougham, *Sir C.J.F.B.* :—Knettishall,
E.F.L. ; Euston. *Sk. ms.*

2. Bures ; Wiston and Stoke-by-Nayland.

3. Flixton, *Woodward* :—Homersfield, *H.B.C.* :—be-
tween Homersfield and St. Cross, *Galp.*

4. Stuston, *Collins* :—Westleton, *Ms. Davy* :—Farn-
ham, *Crabbe* :—Sweffling, *E.N.B. & T.W.G.* :—Dunwich,
Davy.

5. Sudbourne, *Herb. Cas.*:—Gt. Bealings, *Moor*:—Belstead, *W.L.N.*:—between Woodbridge and Ipswich; near Kesgrave, *Crabbe*:—Wherstead, *Haward*.

First record 1773. Sir J. Cullum.

Cardamine, *Linn.*

†1. *C. impatiens*, *Linn.* *Narrow-leaved Bitter Cress.*

Bab. Man. 28. Hook. St. Fl. 28. H. & S. 7.

Annual; usually found on damp rocks or walls.

May to September.

1. Bury, *Hb. Sk.*:—‘a few Plants appear every year in a shady damp corner of the Botanic Gardens,’ *H. & S.* Not seen recently.

First record 1860. E. Skepper.

2. *C. flexuosa*, *With.* *C. silvatica*, *Link.* *Zigzag Bitter Cress.*

Bab. Man. 28. Hook. St. Fl. 28. Top. Bot. Suff. E.

Small annual; found in woods and shady places. A segregate from *C. hirsuta*. Usually on heavy soils.

April to September.

2. Nayland || Long Melford; Polstead and Wiston.

4. Gt. Glemham, *E.N.B.*:—near Wortwell Mill, in a Copse, Suffolk side, *Holmes*.

5. Bentley ||.

First notice 1844. Rev. F. N. Bloomfield.

3. *C. hirsuta*, *Linn.* *Hairy Bitter Cress.*

Bab. Man. 28. Hook. St. Fl. 28. H. & S. 7. Hist. Fram.

Hist. Yarm. Hist. Wher. Galp. 50. Top. Bot. Suff. E. and W.

Small annual; in damp (not wet) soil, or in shade.

April to August.

Frequent in all the districts.

First notice 1597. Gerarde.

4. *C. pratensis*, *Linn.* *Lady's Smock. Cuckoo Flower.*

Bab. Man. 28. Hook. St. Fl. 28. Hist. Fram. Hist. Yarm.

Hist. Wher. Top. Bot. Suff. E. and W. Galp. 50.

Showy herbaceous perennial; very frequent in moist pastures and meadows.

May.

In all the districts.

Var. *flore plens*, Woolpit ||, *F.*; Hitcham, *Hb. Hens.*, and Framlingham, *Crabbe*:—Gt. Glemham, *E.N.B.*; prolific form, Gt. Glemham, *E.N.B.*

First notice 1597. Gerarde.

5. *C. amara*, Linn.

Common Bitter Cress.

Bab. Man. 28. Hook. St. Fl. 28. H. & S. 6, 7. Hist. Fram.
Hist. Bury. Top. Bot. Suff. E. and W. Hist. Wher. Galp. 50.

Herbaceous perennial; frequent on banks of rivers and water courses, with a preference for heavy soil. May, June.

1. Harleston and Tuddenham:—West Stow, *Hb. Rk.*:—Mildenhall, *Hb. Blk.*:—between Buxhall and Stowmarket, *Hb. F.*:—The Lark, Barton Mills, *Sir C.J.F.B.*:—Icklingham, *W.J.*:—Fornham St. Martin, *Blackett*:—Lackford, *Mrs. Carss.*:—Rattlesden, *Sk. ms.*:—Bury, *Sir T. G. Cullum*:—Fornham All Sts., *Blackett*.

2. Nayland ||; Kersey; Polstead and Wiston:—Melford, *J.F.W.*:—Lavenham, *Dr. White*:—Sudbury, *J.S.H.*:—Brent Eleigh, *Mrs. Terry*.

3. Beccles, *Crabbe*:—Bungay, *Woodward*:—Oulton, *McAub.*:—Banks of Waveney, *Holmes*.

4. Gt. Glemham, *E.N.B.*:—Syleham, *Holmes*:—Weybread, *Rev. H. Tilney*.

5. Grundisburgh, *T.H.*:—Ufford, *Crabbe*:—Creeting, *Sk. ms.*:—Wherstead, *Haward*:—Bosmere, *Miss. Jeffes*:—Sproughton, *Mrs. Terry*.

First record 1597. Gerarde.

Hesperis, Linn.

*1. *H. matronalis*, Linn.

Dame's Violet, Rocket.

Bab. Man. 29. Hook. St. Fl. 31.

A tall, handsome and fragrant biennial (with double flower perennial); a native of pastures, but only a stray in Suffolk; rare. May, June.

1. Rattlesden, completely naturalized; extends a long way by the edge of the brook there ||, *Mrs. Parker*:—Pakenham, *Hb. Blk.*: Bradfield, *Hb. Ly.*

3. Browston, once found, *D. Turner*.

First notice 1805. Dawson Turner.

Sisymbrium, Linn.

1. *S. officinale*, Scop. *Common Hedge Mustard.*

Bab. Man. 29. Hook. St. Fl. 30. H. & S. 7. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. and W. Galp. 51.

A very common annual weed, which formerly had considerable reputation as a therapeutic ; waste ground.

June, July.

In all the districts.

First notice 1773. Sir J. Cullum.

[**S. polyceratum*, Linn. *Many-podded Hedge Mustard.*

Bab. Man. 29. Hook. St. Fl. 30. H. & S. 7. Hist. Bury.

A small annual, which for many years found a home in School-lane, Northgate Street, and other parts of Bury. Believed to have been introduced by Dr. Goodenough. The Botanist's Guide, 1805, gives the following account of it: 'This Plant was about 20 years ago thrown out of the garden of the late Rev. Mr. Laurent, but now grows in great quantity about Bury, and is perfectly naturalized.' Recent searches for the Plant have been fruitless.

1. Cannon Place, Bury St. Edmunds, *Hbb. Sk. & Blk.*; also *Sir T. G. Cullum.*

First notice about 1785 ; last published notice, *H. & S.* 1860.]

2. *S. Irio*, Linn. *London Rocket.*

Bab. Man. 29. Hook. St. Fl. 29.

Annual herb ; rare.

July, August.

1. Bury, *Sir J. Cullum*:—Gazeley, *Rev. F. Tearle*; who says, 'I found two plants of this species in my field at Gazeley, growing on the edge of a heap of burnt ashes, Sep. 3rd, 1878. My man unfortunately destroyed them while I was from home, and before I could save the seed.'

Earliest notice 1773; latest record 1878. Sir J. Cullum.

[*S. pannonicum*, Jacq. *Hungarian Hedge Mustard.*

Bab. Man. 30. Hook. St. Fl. App. 529.

Herbaceous plant of Mid-Europe ; a rare stray in England. Blossoms in May to July.

3. Lowestoft, *Hb. Sk.*

Only record about 1861.] E. Skepper.

3. *S. Sophia*, *Linn.**Flixweed.*

Bab. Man. 29. Hook. St. Fl. 29. H. & S. 7. Hist. Yarm.
Galp. 51. Top. Bot. Suff. E. and W.

Tall feathery annual, widely distributed in Suffolk; it
prefers a light soil. June to August.

1. Honington ||; Bardwell; Wangford; Lakenheath;
Brandon; Elveden:—Cavenham, Icklingham, Tuddenham,
and Eriswell, *C.B.*:—Mildenhall, *Sir C.J.F.B.*:—Gazeley,
Rev.F.Tearle:—Pakenham, *Hb.Cas.*:—Barningham, *E.F.L.*:
—Bury, *Sir J. Cullum*:—Fornham, *Sk. ms.*:—Thetford and
Santon Downham, *Norgate*.

2. Bures, *C.B.*:—Wixoe, *Herb. F.*:—Semer, *H. & S.*

3. Gorleston; Kessingland and Covehithe:—Pakefield,
Dr. Trimen:—Fritton, *E.N.B.*:—Belton, *Phyt. N.S.* 1862:
—Homersfield, *H.B.C.*:—St. Olaves, *C.A.W.*:—Bradwell,
H. G. Glaspoole in Hb. Geld.

4. Dunwich and Walberswick:—Gt. Glemham, *E.N.B.*
:—Weybread and Mendham Priory, *H.B.C.*

5. Hollesley:—Baylham, *Herb. F.*:—Felixstowe:—
Blaxhall, *E.N.B.*:—Stoke, Ipswich, *Haward*:—Barking,
Hb. Jeffes:—Bramford, *I.S. Soc.*

Earliest notice 1773. Sir J. Cullum.

4. *S. thalianum*, *Gaud. S. Thaliana*, Hook. *Thale Cress.*

Bab. Man. 29. Hook. St. Fl. 29. H. & S. 6. Hist. Fram.
Hist. Yarm. Hist. Wher. Galp. 50. Top. Bot. Suff. E. and W.

Small annual; frequent on light soil and on walls.

April to October.

1. Honington ||; Troston ||; Brandon; Elveden;
Thetford; Fakenham and Ixworth Thorpe:—Mildenhall,
Hb. Blk.:—Pakenham, *Hb. Cas.*:—Stowlangtoft, *Hb. Rk.*:
—Culford Heath, *Gray*:—Fornham and Nowton, *H. & S.*:
—Bury and Hardwick, *Hb. Wils.*

2. Wiston to Polstead:—Hitcham, *Prof. Hens.*:—
Cockfield, *W. J.*:—Kersey, *E.F.L.*

3. Burgh Castle, *Phyt. N.S.* 1862.

4. Dunwich; Walberswick and Westleton:—Gt.
Glemham, *E.N.B.*:—Brockford, *Hb. Peck*:—Palgrave,
Collins.

5. Orford ; Bentley ; Stutton and Walton :—Gt. Bealings, *Moor* :—Grundisburgh, *T.H.* :—Wherstead, *Haward* :—Bosmere, *Ms. Jeffes* :—Ipswich, *I.S. Soc.*

Earliest record 1774. Sir J. Cullum.

Alliaria, *Adans.*

1. *A. officinalis*, *Andrzj.* *Sisymbrium Alliaria.* Scop.
Sauce Alone, Jack-by-the-hedge.

Bab. Man. 30. Hook. St. Fl. 30. H. & S. 7. Hist. Yarm.
Hist. Fram. Top. Bot. Suff. E. and W. Hist. Wher. Galp. 51.
Herbaceous biennial ; frequent in copses and by hedges.
May, June.

Common in all the districts.

Earliest record 1798. Rev. G. Crabbe.

Erysimum, *Linn.*

1. *E. cheiranthoides*, *Linn.* *Wall-flower*
Treacle Mustard.

Bab. Man. 30. Hook. St. Fl. 31. H. & S. 7. Hist. Fram.
Hist. Yarm. Hist. Bury. Hist. Wher. Galp. 51. Top. Bot.
Suff. E. and W.

Erect herbaceous annual or biennial, plentifully distributed throughout the County, and likely more frequent than in last century. Sir J. Cullum speaks of it as if it were a rare plant in his time. 'June 4, 1774. My brother sends me word that he found this in a plantation at Cavenham.' It is still a rare plant in other parts of Great Britain, especially in the North. Native of the Fens, *C.C.B.*

June to September.

1. Honington || ; Barton Mills ; Icklingham ; Lakenheath ; Troston ; Ixworth Thorpe ; Bardwell ; Market Weston and Thelnetham :—Mildenhall, not uncommon on peaty soil, often very abundant on land lately reclaimed from the Fen, *Sir C.J.F.B.* :—Cavenham, *Hb. Cas.* :—Barton, *Hb. Blk.* ; Bury, *Hb. Sk.* ; Pakenham, *Hb. Rk.* ; Walsham, *Hb. Dun.* ; Gazeley, *Rev. F. Tearle* :—Barningham, *E.F.L.* :—Elveden, *Mr. Newton, Dill. Ray.* :—Harleston and Wetherden :—Tuddenham, *C. Rose in Hb. Wils.*

2. Nayland and Long Melford :—Cockfield, *C.B.* :—Hitcham *Hb. Hens.* :—Thurlow, *Hb. F.*

3. Belton and Benacre :—Pakefield, *E. Sk.* :—Bungay, *Sir J. Cullum* :—Beccles, *Crabbe* :—Halesworth, *D. Turner*.

4. Redgrave and Botesdale; Cookley and Westleton :—Gt. Glemham, *E.N.B.* :—Burgate, *Ashfield* :—Yoxford, *Davy* :—Framlingham, *Crabbe*.

5. Aldeburgh :—Grundisburgh, *T.H.* :—Ipswich, *Dr. Smith* :—Wherstead, *Haward* :—Brantham, *C.B.*

Earliest notice 1724. Newton in Dillenius.

[*E. orientale*, *R. Brown*.

Oriental Worm-seed.

Bab. Man. 30. Hook. St. Fl. App. 529.

A foreign annual introduced with seed. May to July.

2. Plentiful in a clover-field at Nayland ||, *Gray*.

5. 'Cliffs at Bardsey, near Orford,' *D. Dale*, *Dill. Ray*.

First record 1724; last notice 1881. Dale in Dillenius.]

Brassica, *Linn.*

1. *B. oleracea*, *Linn.*

Wild Cabbage.

Bab. Man. 30. Hook. St. Fl. 31. Hist. Yarm.

Biennial herb; usually on sea cliffs, especially chalk; very rare in Suffolk. June to August.

3. Pakefield, *Prof. Cowell*.

5. Felixstowe ||.

Earliest notice 1870? Prof. Cowell.

2. *B. campestris*, *Linn.*

Navew, Turnip.

Bab. Man. 31. Hook. St. Fl. 32. H. & S. 8. Hist. Yarm.

Cyb. Br. Supp.

Biennial herb; by rivers and in fields; its cultivated forms (turnip and rape) are staple products of the farm and garden. July to August.

1. Fakenham; Bardwell ||, and *Hb. Blk.* :—Nowton, *Hb. Ly.*

2. Hitcham, *Hb. Hens.*

4. Darsham :—Stuston, *Collins*.

5. Gt. Bealings, *Moor* :—near Orford, *Ms. Davy*.

Var. *b.* *B. Rapa*, *Linn.*

Turnip.

Bab. Man. 31. Hook. St. Fl. 32. Hist. Yarm.

1. Sapiston :—Pakenham, *Hb. Blk.* :—Stowlangtoft, *Hbb. Dun. & Rk.* :—Bury, *Hb. Wils.*

2. Stoke-by-Nayland.
4. Dunwich ||.
5. Ipswich ||; Needham Market :—Gt. Bealings, *Moor*.

Var. *c.* *B. Napus*, Linn.

Rape.

Bab. Man. 31. Hook. St. Fl. 32. Hist. Yarm.

1. Fakenham ||; Honington and Ixworth Thorpe :—
Pakenham, *Hb. Cas.* :—Gt. Welnetham, *Hb. Ly.*

2. Nayland || and Stoke.

3. Oulton.

4. Westleton ||.

5. Gt. Bealings, *Moor*.

B. Rutabaga, DC. The common swede is frequent
as a remnant of cultivation.

First notice 1773. Sir J. Cullum.

Sinapis, Linn.

1. *S. nigra*, Linn. *Brassica nigra*, Koch. *Black Mustard.*

Bab. Man. 31. Hook. St. Fl. 32. Hist. Yarm. Top. Bot.
Suff. E. and W. H. & S. 8.

Large annual; by river banks and near the sea.

June to August.

1. Haughley|| :—Barton, *Hb. Blk.* :—Hardwick, *Hb. Sk.*
:—Pakenham, *Hb. Cas.* :—Stowlangtoft, *Hb. Dun.* :—Mar-
ket Weston, *E.F.L.* :—Bury, *H. & S.*

2. Nayland and Stoke.

3. Belton; Gorleston and Lowestoft :—Corton, *Sk. ms.*

4. Blythburgh; Dunwich; Walberswick and Wen-
haston; Thorpe :—Gt. Glemham, *E.N.B.*

5. Bramford||; Bentley; Bawdsey; Orford; Alde-
burgh; Felixstowe and Ipswich :—Grundisburgh, *T.H.* :—
Bergholt, *H. & S.* :—Wherstead, *Haward.*

Earliest notice 1831. Mrs. Casborne.

2. *S. arvensis*, Linn. *Brassica Sinapis*, Visiani.
Charlock.

Bab. Man. 31. Hook. St. Fl. 33. H. & S. 8. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. and W. Galp. 51.

A troublesome annual weed, too common among the
crops and in waste places.

June to August.

Very common in all the districts.

First record 1773. Sir J. Cullum.

†3. *S. alba*, Linn. *Brassica alba*, Boiss. White
Mustard.

Bab. Man. 31. Hook. St. Fl. 33. H. & S. 8. Hist. Yarm.
Top. Bot. Suff. E. and W.

Annual herb of cultivation, producing our table mustard,
strays of which are not infrequent. June, July.

1. Bury, *Hb. Sk.* :—Pakenham, *Hb. Cas.* :—Milden-
hall, *J.T.*

2. Hitcham, *Hb. Hens.*

3. Lowestoft, *Sk. ms.*

4. Westleton || ; Thorpe.

5. Claydon ; Orford :—Gt. Bealings, *Moor* :—Alde-
burgh, *Hb. Jeffes.*

First notice 1832. Mrs. Casborne.

[4. *S. incana*, Linn. *Brassica adpressa*, Boiss.
Hoary Mustard.

Bab. Man. 31. Hook. St. Fl. 33.

Biennial weed accidentally sown with other seeds, as
Lucerne and Sainfoin. July to August.

1. Euston || ; Bardwell.

Earliest notice 1884. Hind.]

[*Erucastrum*, Schimp. and Spenn.

E. Pollichii, Schimp. and Spenn. *Brassica Erucastrum*,
Vill.

Hook. St. Fl. App. 529.

Annual weed, evidently a stray ; a single plant on the
grassy road-side near a park. April to October.

1. Brandon || ;—Newmarket, on Race-course, *W.J. Cross*,
1885. Hind.]

Diplotaxis, DeCand.

1. *D. tenuifolia*, DC. *Fine-leaved Wall Mustard*.

Bab. Man. 32. Hook. St. Fl. 34. H. & S. 7. Top. Bot. Suff.
E. and W.

Herbaceous perennial ; on old walls ; not common.

July to September,

1. Brandon.
3. Lowestoft, *Dr. Trimen* :—Gorleston, *W.J.* :—Corton, *W. Winter, Phyt. N.S.* 1862 :—St. Olave's Bridge, *H. & S.*
4. Dunwich, *W.J. & E.N.B.*
5. St. Nicholas, Ipswich || ; Woodbridge.
First notice 1857. Sir C. J. F. Bunbury.

2. *D. muralis*, *DC.* *Sand Mustard.*

Bab. Man. 32. Hook. St. Fl. 33, 34. H. & S. 8. Top. Bot. Suff. E. and W. Galp. 51.

Annual ; not very frequent ; roadsides and waste places. Spreads freely at times on the gravel of railroads.

August, September.

1. Brandon || ; West Row || ; Haughley ; Higham and Honington :—Bury, *Hb. Sk.* :—Norton, *J. Rasor* :—Saxham, *E. S. Marshall*.

2. Long Melford :—Cockfield, *W.J.*

3. Gorleston and Beccles :—Bungay, *Cyb. Br.* :—Carlton Colville, *Dr. Trimen* :—Lowestoft, *Sk. ms.* :—Kirkley, *H.D.G. in Hb. Geld.* :—Southwold, *J.H.G.* :—Oulton, *McAub.*

4. Redgrave and Eye ; Thorpe.

5. Ipswich Docks ; Landguard Fort and Woodbridge :—Felixstowe, *C.B.* :—Aldeburgh, *E.N.B.* :—Wherstead, *Harward* :—Bank of Gipping, Ipswich *I.S. Soc.*

b. D. Babingtonii.

1. Honington :—Higham, *E. S. Marshall*.

5. Ipswich.

First notice 1847. C. H. Watson.

[*Berteroa*, *DeCand.*

B. incana, *DC.*

Alyssum incanum, Linn.

Hoary Berteroa.

Hook. St. Fl.

A stray accidentally introduced.

1. Culford Heath, *Gray*.

2. Nayland ||.

Earliest notice 1878. Rev. J. D. Gray.]

Alyssum, Linn.

*1. *A. calycinum*, Linn.

Large calyxed Madwort.

Bab. Man. 32. Hook. St. Fl. 36.

Annual; an occasional stray in cornfields. May, June.

1. Cloverfield at Woolpit ||, *Hb. F.* Mrs. French.

**A. maritimum*, *Linn.*

Seaside Madwort.

Bab. Man. 32. Hook. St. Fl. 36. H. & S. 8. Hist. Yarm.

Procumbent sweet-scented perennial, apparently naturalized in some spots near the sea. August, September.

3. Hopton || :—'Naturalized in Breydon Marshes,' *Paget.*

5. Felixstowe, *Dr. Taylor* :—Landguard Fort, *W.L.N.* :—Aldeburgh Beach, *Sk. ms.*

Earliest notice 1834. *Paget.*

Draba, *Linn.*

1. *D. verna*, *Linn.*

Erophila vulgaris. DC.

Vernal Whitlow-grass.

Bab. Man. 33.

Hook. St. Fl. 35.

H. & S. 8.

Hist. Yarm.

Top. Bot. Suff. E. and W.

Hist. Wher.

Galp. 50.

A small annual; plentiful on banks and walls, especially on light soil. May, June.

Frequent in all the districts.

A large form, probably *D. hirtella* or *D. spathulata*, occurs at Honington, and also at Felixstowe.

D. brachycarpa. 1. Thetford Heath, *A.B.* :—Mildenhall.

First record 1773. Sir J. Cullum.

Cochlearia, *Linn.*

1. *C. officinalis*, *Linn.*

Scurvy-grass.

Bab. Man. 33.

Hook. St. Fl. 36, 37.

H. & S. 8.

Hist. Yarm.

Top. Bot. Suff. E.

Herbaceous biennial; chiefly on muddy sea-shores. Seemingly very rare in Suffolk.

3. Southwold, *Holmes* :—Oulton Marshes, *E. Sk.*

5. Salt Marsh, Hollesley; Catawade :—Aldeburgh, *Hb. F.* :—Ramsholt, *Sir J. Cullum* :—Felixstowe, *W.J.* :—Banks of Gipping, *Sk. ms.*

First notice 1773. Sir J. Cullum.

2. *C. danica*, Linn. *Danish Scurvy-grass.*
 Bab. Man. 33. Hook. St. Fl. 37. Top. Bot. Suff. E.
 Herbaceous perennial; on the sea-coast. May to Aug.
 3. Benacre:—Southwold, *Holmes*:—accidentally at
 Bungay, *Stock*.
 4. Dunwich.
 5. Felixstowe, || :—Aldeburgh, *C.B.*:—Ramsholt, *Sir*
J. Cullum:—near Woodbridge, *Hb. Sk.*:—Orford, *E.N.B.*:
 —near Landguard Fort, *A.B.*
 First notice 1773. Sir J. Cullum.

3. *C. anglica*, Linn. *English Scurvy-grass.*
 Bab. Man. 34. Hook. St. Fl. 37. Top. Bot. Suff. E. Hist. Yarm.
 Annual; on muddy sea-shores; not common.
 May to August.
 3. Breydon Water ||; Carlton Colville:—Burgh Castle,
Wigg:—Southwold, *Holmes*.
 4. Walberswick:—Snape, *E.N.B.*
 5. Walton ||:—Aldeburgh and Felixstowe, *C.B.*:—
 Orford, *Hb. Cas.*:—Ipswich, *Hb. Jeffes*:—Wherstead, *Ha-*
ward:—Woodbridge, *Hb. Ly.*
 First record 1773. Sir J. Cullum.

Armoracia, Rupp.

- [*A. rusticana*, Rupp. *Cœchlearia Armoracia*, Linn.
Horse Radish.
 Bab. Man. 34. Hook. St. Fl. 37. H. & S. 8. Hist. Yarm.
Galp. 50.
 Perennial herb; a frequent escape from cultivation.
 May.
 1. Honington ||; Brandon; Bury; Fakenham; Mil-
 denhall; Haughley and Wetherden:—Barton, *Hb. Blk.*:—
 Pakenham, *Hb. Cas.*
 2. Nayland:—Cockfield, *C.B.*:—Bank of Stour between
 Thurlow and Wrattling, *Hb. F.*
 3. Corton; Gorleston; Halesworth and Kessingland:
 —Oulton Marshes, *Sk. ms.*:—Flixton, *H.B.C.*
 4. Mendham, *Galp.*
 5. Bawdsey:—Banks of Gipping, *Ips. Fl.*
 Earliest record 1775. Sir J. Cullum.]

1. *A. amphibia*, Koch. *Nasturtium amphibium*, R. Brown.
Yellow Cress.

Bab. Man. 34. Hook. St. Fl. 25. H. & S. 6. Hist. Yarm.
Top. Bot. Suff. E. and W. Hist. Wher. Galp. 49.

Perennial herb; at the edge of rivers and pools; not frequent. June to August.

1. Ampton ||; Bardwell ||; Honington; Fakenham Wood; Santon Downham:—Stowlangtoft, *Hb. Rk.*:—Woolpit, *J. Rasor*:—Fornham All Sts., *Hb. Sk.*:—Fornham St. Martin, *H. & S.*:—Mildenhall, *Sir C.J.F.B.*:—Bradfield, *Hb. Ly.*

3. Bungay, *H. & S.*:—Lowestoft Denes, *G. Clowes in Hb. Geld.*

4. Redgrave Fen:—Framlingham, *E.N.B.*:—Thwaite, *Hb. Peck*:—Syleham, (*E.A.H.*) *Galp.*:—Burgate; between Eye and Hoxne, *E. S. Marshall.*

5. Wherstead, *Haward*:—Bramford, *Miller.*

Earliest notice 1773. Sir J. Cullum.

[*Camelina*, Crantz.

C. sativa, Linn.

Gold of pleasure.

Bab. Man. 34. Hook. St. Fl. 37. H. & S. 8.

Annual; an occasional stray in flax or corn-fields.

1. Oat-field, Barton, near the 'Holy House,' *Hb. Blk.* and *Sir C.J.F.B.*:—Lakenkeath Field by Wangford, *With.* and *Eagle.*

2. Cockfield ||, *C.B.*

3. Lowestoft, *Hb. Sk.*:—Belton, *Phyt. N.S.* 1862.:—Burgh Castle, *H. G. Glasspoole in Hb. Geld.*

5. Ramsholt and Woodbridge, *Holmes.*

Form b. 4. Lit. Bradley, *Hb. F.*

Earliest record 1773. Sir J. Cullum.]

Thlaspi, Linn.

1. *T. arvense*, Linn.

Penny Cress.

Bab. Man. 35. Hook. St. Fl. 40. H. & S. 9. Hist. Bury.
Hist. Fram. Hist. Yarm. Hist. Wher. Galp. 52. Top. Bot.
Suff. E. and W.

Annual herb; not infrequent in fields and road-sides, with a preference for light soil. May to July.

1. Honington ||; Fakenham; Hopton; Troston and Brandon:—Stanton, *Hb. Rk.*:—Barningham, *E.F.L.*:—Fornham; Haughley and Badwell Ash, *Sir T. G. Cullum*:—Norton, *J. Rasor*:—Tostock, *Mrs. Terry*:—Santon Downham, *Norgate*.

2. Nayland, *Gray*:—Hitcham, *Sk. ms.*

3. Lowestoft, *Hb. Sk.*:—Belton, *D. Turner*:—Pakefield, *Paget*:—Bungay, *Stock*:—Southwold, *W.J.*

4. Blythburgh; Walberswick:—Saxmundham, *Ray*:—Rickingham Sup. *C.B.*:—Botesdale, *Hb. Blk.*:—Framlingham, *Crabbe*:—Snape, *H. & S.*:—Weybread, *Galp.*

5. Freston, *W.L.N.*:—Woolverstone, *H.M.S.*:—Wherstead, *Haward*:—Aldeburgh, *Hb. Jeffes*:—Bentley and Holbrooke, *Miller*:—Ipswich, *I.S. Soc.*

Earliest record 1690. *Ray*.

Teesdalia, *R. Brown*.

1. *T. nudicaulis*, *R. Brown*. *Naked-stemmed Teesdalia*.

Bab. Man. 36. Hook. St. Fl. 42. H. & S. 9. Hist. Bury.
Hist. Fram. Galp. 52. Top. Bot. Suff. E. and W.

Small annual; local on sandy heaths and pastures.

May, June.

1. Elveden ||; Troston ||; Barnham; Thetford; Fakenham; Haughley:—Lackford, *Hb. Rk.*:—West Stow, *Hb. Blk.*:—Woolpit, *Hb. F.*:—‘Very frequent on the dry open, sandy lands on the N. and E. of Mildenhall, *Sir C.J.F.B.*:—Culford, *Gray*:—Culford Heath, *Rev. G. R. Leathes*:—about Bury, *Woodward*:—Cavenham; Icklingham; Tuddenham, *Sk. ms.*:—Santon Downham and Brandon, *Norgate*.

3. Lowestoft, *Hb. Sk.*:—Belton; Fritton, *Wigg*:—Henham, *Davy*:—Bungay, *Stock*:—Southwold, *Holmes*:—Homersfield Heath, *H.B.C.*

4. Dunwich; Westleton:—Framlingham; Leiston, *Crabbe*:—Sweffling, *E.N.B.*:—Snape, *Hele*:—Stuston Common, *Collins*:—Walberswick, *J.H.G.*

5. Aldeburgh and Orford, *Crabbe*:—Blaxhall, *E.N.B.*:—Creting, *Hb. Jeffes*.

Earliest notice 1773. *Sir J. Cullum*.

[*Iberis*, *Linn.*1. *I. amara*, *Linn.**Candytuft.*

Bab. Man. 36. Hook. St. Fl. 41.

A showy annual; found in dry and chalky fields; likely only a stray from cultivation in Suffolk. July, Aug.

1. Honington || :—Barton, *Hb. Blk.*:—Walsham, *Hb. Dun.*:—Cavenham, *C.B.*

2. Gt. Thurlow, *Hb. F.*

Earliest record 1847. Mrs. Dunlap]

Lepidium, *Linn.*[*L. Draba*, *Linn.**Hoary Pepperwort.*

Bab. Man. 36. Hook. St. Fl. 40. H. & S. 9.

Herbaceous perennial; accidentally introduced in gardens, fields, and roadsides. May, June.

1. Fornham St. Martin || :—Lee's fields and Risbygate road, Bury, *Hb. & ms. Sk.*

2. Cockfield, *W. J.*

5. Landguard Fort, *Gray*; Coddensham, *F. Fox.*

Earliest notice 1859. E. Skepper.]

2. *L. campestre*, *R. Brown.**Field Pepperwort.*

Bab. Man. 36. Hook. St. Fl. 40. H. & S. 9. Hist. Fram.

Hist. Yarm. Top. Bot. Suff. E. and W.

Biennial herb; usually in dry soil, on banks.

June to August.

1. Fakenham; Bury, *Sk. ms.*

2. Nayland; Cockfield, *C.B.*:—Hitcham, *Hb. Hens.*

3. Benacre; Gorleston; Hopton; Rushmere; Lowestoft, *Hbb. Blk. Sk.*; Bungay, *Stock*:—Southwold, *Hb. Ly.*:—Kirkley, *H.D.G. in Hb. Geld.*

4. Westleton; Gt. Glemham, *F.N.B.*; Huntingfield, *Holland*; Framlingham, *Crabbe*:—Oakley, *Collins*:—Yoxford, *Ms. Davy.*

First notice 1696. Lawson in Ray.

3. *L. Smithii*, *Hook.**Smith's Pepperwort.*

Bab. Man. 36. Hook. St. Fl. 40.

H. & S. 9.

Hist. Yarm.

Top. Bot. Suff. E. Galp. 52.

Biennial herb, growing on hedge-banks ; rare.

June to August.

2. Hitcham, *Hb. Hens.*

3. Browston, *Rev. G. R. Leathes* :—Lowestoft, *E. Sk.* :
—Flixton, (*E.A.H.*) *Galp.*

5. Coddtenham, on a bank, *F. Fox.*

First notice 1834. *Rev. G. R. Leathes.*

[*L. sativum*, *Linn.*

Common Cress.

Bab. Man. 37. *Hook. St. Fl.* App. 529.

A rapid annual much in repute for salads, occurring
occasionally as a stray. June, July.

1. Honington || :—Fields near Bury, *Hb. Wils.*

Earliest notice 1833. *Hb. Wilson.*]

3. *L. ruderale*, *Linn.*

Narrow-leaved Pepperwort.

Bab. Man. 37.

Hook. St. Fl. 39.

H. & S. 9.

Hist. Yarm.

Top. Bot. Suff. E.

Annual ; in waste places near the sea. May, June.

3. Southtown || :—Burgh Castle, *W.J. & W. Winter*
Phyt. N.S. 1862 :—Lowestoft, *Hb. Sk.* :—Southwold, *Holmes*,

4. On a heap of gravel at the Railway Station, Eye ||,
likely from the coast :—Blythburgh, *Holmes.*

5. Catawade || ; Woodbridge ; Ipswich and Landguard
Fort :—Felixstowe, *C.B.* :—Walton Ferry and Aldeburgh,
H. & S. :—Brantham, *Sk. ms.* :—Marshes by Aldeburgh,
Woodward.

Earliest notice 1724. *Dillenius.*

4. *L. latifolium*, *Linn.*

Dittander.

Bab. Man. 37.

Hook. St. Fl. 39.

H. & S. 9.

Hist. Yarm.

Top. Bot. Suff. E.

Large perennial herb ; native of salt marshes ; rare.

July, August.

4. At Blythburgh, in the road from Beccles to Sax-
mundham, and also at Snapebridge just after crossing the
Ore, *Dill. Ray.*, *Herb. Ox. & E.N.B.*

5. Ipswich Docks || :—Banks of Orwell, *Ips. Fl.* :—
Reed pond above Stokebridge, Ipswich, in *Hb. Benn.*, *Coll.*
W. L. Notcutt.

Earliest notice 1775. *Pitchford.*

Capsella, Vent.

1. *C. Bursa-pastoris*, DC. *Shepherd's Purse.*

Bab. Man. 37. Hook. St. Fl. 38. H. & S. 9. Hist. Yarm.
Top. Bot. Suff. E. and W. Galp. 51.

Annual; growing nearly everywhere; and in blossom nearly throughout the year.

Very common in all the districts.

There is an interesting form in *Hb. Wils.* from the Marsh Meadows, Bury; having no radical rosette of leaves, height 7 to 9 inches, branched slightly near the base, stem and branches rather leafy, leaves sagittate, stem clasping, appressed, silicles very minute, one line long and broad. It is entered as *Lepidium campestre*, which it resembles.

The following varieties occur:

- b. minor*, DC. Honington || and Barnham,
- c. integrifolia*, DC. Honington ||; Hitcham, *Hb. Hens.*
- d. coronopifolia*, DC. Honington ||; Fakenham; Barton Mills.

Senebiera, Pers.

1. *S. Coronopus*, *Poir.* *Swine's Cress.* *Wart Cress.*

Bab. Man. 37. Hook. St. Fl. 39. H. & S. 9. Hist. Yarm.
Hist. Wher. Galp. 51. Top. Bot. Suff. E. and W.

Decumbent annual; frequent on waste ground.

June to September.

1. Honington ||; Ixworth; Haughley:—Bury, *Hb. Sk.*:—Pakenham, *Hb. Cas.*

2. Melford and Nayland; Stoke-by-Clare:—Cockfield, *C.B.*:—Hitcham, *Hb. Hens.*:—Kersey, *F.F.L.*

3. Beccles; Southtown ||; Kessingland:—Lowestoft, *E. Sk.*

4. Botesdale; Burgate; Walberswick and Westleton.

5. Aldeburgh; Stutton:—Grundisburgh, *T.H.*:—Coddtenham, *F. Fox*:—Wherstead, *Haward.*

Earliest record 1773. Sir J. Cullum.

[2. *S. didyma*, Pers. *Small Wart Cress.*

Bab. Man. 38. Hook. St. Fl. 39.

A South and West coast annual; on waste ground.

Most unlikely to occur in Suffolk. Dr. Babington found a similar stray at Yoxhall Lodge, Staffordshire.

2. Rede, *Hb. Turn.* Probably an error as to locality.]

Isatis, Linn.

†*I. tinctoria, Linn.*

Woad.

Bab. Man. 38. Hook. St. Fl. 43. "Suffolk," *Winch*, without locality.

A casual on waste land; rare.

May to July.

1. Risby, May and June 1876, and June 1877, *C.B.* and *W.J.*

5. Coddensham, *T.B.*

Earliest record 1835. *Winch.*

Cakile, Gært.

1. *C. maritima, Scop.*

Purple Sea Rocket.

Bab. Man. 38. Hook. St. Fl. 43. H. & S. 10. Hist. Yarm. Top. Bot. Suff. E.

Annual; frequent on sandy shores.

June to Sept.

3. Lowestoft ||; Kessingland to Covehithe:—Southwold, *Ms. Davy*:—Corton, *Phyt. N.S.* 1862:—Pakefield, *Sk. ms.*:—Southwold, *T. Martyn.*

4. Dunwich:—Thorpe, *Hele.*

5. Aldeburgh; Bawdsey; Walton:—Felixstowe, *Miller*:—Landguard Fort, *T.W.G.*

Earliest record 1763. *T. Martyn.*

Crambe, Linn.

1. *C. maritima, Linn.*

Sea Kale.

Bab. Man. 38. Hook. St. Fl. 43. H. & S. 10. Top. Bot. Suff. E.

Formerly on the seashore, now believed to be extinct.

June.

3. Southwold, *Hist. Southw.*

4. Dunwich Beach, *Ms. Davy*:—Walberswick, *F. Spalding.*

5. Aldeburgh, *T.B.*

First record 1805. *Davy.*

Raphanus, *Linn.*

1. *R. Raphanistrum*, *Linn.* *Radish.*

Bab. Man. 38, 39. Hook. St. Fl. 44. H. & S. 10. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. and W. Galp. 52.

Annual; occurring in corn-fields and waste places.

June to August.

Occasionally in all the districts.

First notice 1773. Sir J. Cullum.

2. *R. maritimus*, *Sm.* *Sea Radish.*

Bab. Man. 39. Hook. St. Fl. 44. Top. Bot. Suff. E. ?
H. & S. 10.

Annual; only on the sea-coast; rare. June to Sept.

3. Gorleston ||.

4. Between Thorpe and Aldeburgh, *H. & S.*

First record 1860. Henslow and Skepper.

[*Bunias*, *R. Brown.*

B. orientalis, *Linn.* *Oriental Bunias.*

Shrubby herbaceous biennial, appearing as a casual in
a sandy pasture. June.

1. Elveden || 1882. Hind.]

RESEDACEÆ.

Reseda, *Linn.*

1. *R. lutea*, *Linn.* *Cut-leaved Mignonette.*

Bab. Man. 39. Hook. St. Fl. 45. H. & S. 10. Top. Bot.
Suff. E. and W. Hist. Wher.

Herbaceous biennial; tolerably frequent on chalky soil,
and on the open sandy warren lands. June to August.

1. Honington ||; Brandon; Elveden; Cavenham;
Barnham; Euston; Fakenham and Thurston:—Barton,
Hb. Blk.:—Bury, *Ms. Davy & Hb. Sk.*:—Pakenham, *Hb.*
Cas.:—Stowlangtoft, *Hb. Rk.*:—Mildenhall, *Sir C.J.F.B.*:

—Culford Heath, *Gray*:—Thetford, *F.T.*:—Tuddenham, *E. Sk.*:—Westley, *Hb. Wils.*:—Tostock, *Mrs. Terry*:—Santon Downham, *Norgate*.

2. Cockfield, *W.J.*:—Hitcham, *Prof. Hens.*:—Long Melford, *J.F.W.*:—Ruined walls, Hadleigh, *F. Spalding*.

3. Pakefield, *Dr. Trimen*:—Lowestoft, *E. Sk.*:—Bungay, *F. Spalding*:—Oulton, *McAub.*

4. Redgrave, *C. J. Ashfield*:—Friston, *E.N.B.*:—Dunwich, *F. Spalding*:—Brockford, *Hb. Peck*.

5. Coddenham, *F. Fox*:—Hemingstone, *T.B.*:—Needham Market, *E. Clowes*:—Woodbridge, *H.M.S.*:—Felixstowe, *C.B.*:—Wherstead, *Haward*:—Aldeburgh; Sudbourne, *E.N.B.*

Earliest notice 1773. Sir J. Cullum.

[*R. suffruticulosa*, *Linn.*

R. alba, *Linn.*

White Mignonette.

Bab. Man. 39. Hook. St. Fl. 45.

Herbaceous casual, occurring on waste or sandy land near the sea.

July, August.

3. Lowestoft, *Dr. Trimen*, 1859:—Kirkley, *H.D.G. in Hb. Geld.*]

3. *R. luteola*, *Linn.*

Dyer's Weld.

Bab. Man. 39. Hook. St. Fl. 45.

H. & S. 10. Top. Bot. Suff.

E. and W. Hist. Wher. Galp. 52.

Tall erect biennial; widely distributed, but not usually in great quantity in any spot; almost indifferent as to soil.

July, August.

Well represented in all the districts.

Earliest notice 1773. Sir J. Cullum.

CISTACEÆ.

Helianthemum, *Gært.*

3. *H. vulgare*, *Gært.*

H. Chamæcistus, *Mill.*

Rock-rose.

Bab. Man. 40.

Hook. St. Fl. 46.

H. & S. 10.

Top. Bot.

Suff. E? and W.

Procumbent perennial shrub ; on dry heaths and banks ; not very frequent. July to September.

1. Bardwell ||; Elveden ||; Brandon; Wangford:—Thurston, *Hb. Cas.*:—Lit. Livermere, *Gray*:—Holywell Row, *Sir C.J.F.B.*:—Denham, *C.B.*:—between Drinkstone and Gedding, *Herb. F.*:—Newmarket Heath, *Hb. Blk.*:—Rougham, *W.J.*:—Woolpit, *F.*:—Tuddendam and Saxham, *H. & S.*:—Ixworth, *Hb. Jeffes*:—Westley, *Sk. ms.*:—Santon Downham, *Norgate*:—Risby Heath, *Hb. Wils.*:—Tostock, *Hb. Ly.*:—Bury, *J. Priest in Hb. Geld.*

2. Acton ||:—Long Melford, *J.F.W.*:—Sudbury, *Fulcher*.

3. Lowestoft, *E. Sk.*

4. Stuston Common, *Collins*.

5. Creeting, *T.B.*:—Coddendam, *F. Fox*:—Lit. Blakenham, *Dr. Taylor*.

Earliest notice 1773. Sir J. Cullum.

VIOLACEÆ.

Viola, *Linn.*

1. *V. palustris*, *Linn.*

Marsh Violet.

Bab. Man. 41. Hook. St. Fl. 47. Hist. Yarm. Top. Bot. Suff. E. Galp? 52.

Herbaceous perennial found in bogs; widely distributed in Great Britain, yet seemingly confined to one district in Suffolk. April to June.

1. Mildenhall? A plant so named in error in *Hb. Blk.* No mention is made of *V. palustris* in Sir C. Bunbury's list.

3. Lound and Fritton Broad:—'Bogs at Lound Mill and at Hopton,' *Wigg*:—Marshes, Worlingham, *R. E. Leach*:—Belton, *J. Priest in Hb. Geld.*:—North of Benacre Broad, *Hb. Sk.*:—Herringfleet, *F.N.B.*:—Flixton, *Galp?*

Earliest record 1802. *Wigg*.

2. *V. odorata*, *Linn.*

Sweet Violet.

Bab. Man. 41. Hook. St. Fl. 48. H. & S. 11. Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 52.

Herbaceous perennial; very frequent on hedge-banks.

and corners of fields.

March, April.

Occurs in all the districts.

Var. *V. alba*, Bess., is tolerably frequent.

Earliest record 1773. Sir J. Cullum.

3. *V. hirta*, Linn.

Hairy Violet.

Bab. Man. 42. Hook. St. Fl. 48. Top. Bot. Suff. W.

Herbaceous perennial; in woods and on hedge-banks, on chalky soil; not frequent.

April, May.

1. Sapiston ||:—Langham, *Hb. Dun.*:—Newmarket Heath, *Hb. Cas.*:—‘Munn’s Road, Mildenhall,’ *Sir C.J.F.B.*:—Woolpit, *F.*:—Ickworth, *Blackett*:—Bury, *Woodward*:—Hawstead, *H. & S.*

2. Acton; Brettenham; Hartest and Long Melford:—Cockfield, *C.B.*:—Stoke-by-Clare and Lit. Thurlow, *Hb.F.*:—Chevington, *H. & S.*

4. Wortham, *Collins*:—between Mellis and Wortham Long Green; North-end of Burgate Wood, *E. S. Marshall*.

5. Barking, *T.B.*:—Needham Market, *E. Clowes*.

First notice 1773. Sir J. Cullum.

4. *V. silvatica*, Fries.

V. Riviniana, Reich.

Wood Violet.

Bab. Man. 42. Hook. St. Fl. 48.

H. & S. 11. (*V. canina*).

Hist. Wher. Top. Bot. Suff. E. and W. Galp. 53.

Herbaceous perennial; very common in woods and on hedge-banks; often confounded with *V. canina*, L.

April, May.

The normal form *V. Riviniana*, Reich., occurs commonly in all the districts.

Earliest notice 1773. Sir J. Cullum.

V. Reichenbachiana, Bor.

Reichenbach’s Violet.

Bab. Man. 42. Hook. St. Fl. 49. Galp. 53.

Herbaceous perennial; in shady places; not common.

April, May.

1. Honington; Ixworth; Hinderclay; North of Norton Church ||:—Troston Heath, *Hb. Cas.*:—Thurston Heath, *Cas. in Hb. Rk.*:—Tuddenham Heath, *W.J.*:—Gazeley, *Rev. F. Tearle*:—plentiful about Welnetham and Hawstead, *E.S. Marshall*:—Bradfield, *Hb. Ly.*

2. Stoke-by-Nayland.
 3. St. Margaret's (E.A.H.), *Galp.*
 4. More general than *silvatica* about Mellis, Wortham,
 and Burgate, *E. S. Marshall.*
 First notice about 1830. Mrs. Casborne.

6. *V. canina*, Linn. *Dog Violet.*
 Bab. Man. 43. Hook. St. Fl. 48. Hist. Yarm. Top. Bot.
 Suff. E. and W. H. & S. 11.
 Herbaceous perennial; on sandy or heathy land.
April, May.
 1. In a light chalky pasture at Elveden || :—open sandy
 lands at Mildenhall, *Sir C.J.F.B.* :—Tuddenham, *C. Rose in*
Hb. Wils.
 3. Denes at Lowestoft :—Bungay, *H. & S.*
 Var. *V. lancifolia*, Thore.
 3. Denes at Lowestoft ||.
 Earliest notice 1832. Rose.

8. *V. lutea*, Huds. Var. *V. amœna*, Syme.
Mountain Pansy.
 Bab. Man. 44. Hook. St. Fl. 50.
 Small herbaceous perennial, with underground stems,
 flowers pale purple; on stony heaths. Smaller than the
 mountain form. June.
 1. Barnham Heath ||, *Gray* :—Santon Downham, *Sk.ms.*
 Earliest notice about 1860. Skepper.

9. *V. tricolor*, Linn. *Pansy, Heartsease.*
 Bab. Man. 44. Hook. St. Fl. 49. H. & S. 11. Hist. Yarm.
 Hist. Wher. Top. Bot. Suff. E. and W.
 Herbaceous perennial; frequent on cultivated soil.
May to September.
 Occurs in all the districts.
 First record 1773. Sir J. Cullum.

- V. arvensis*, Murr. *Field Pansy.*
 Bab. Man. 44. Hook. St. Fl. 49. Top. Bot. Suff. E. and W.
Galp. 53.
 Herbaceous perennial frequent in corn-fields; too con-
 stant in character and too widely spread for a mere variety.
 Included in *V. tricolor* in *H. & S.* May to September.

1. Honington || ; Brandon ; Barton Mills ; Tuddenham ; Troston ; Harleston and Wetherden :—Mildenhall, *Sir C.J.F.B.* :—Stowlangtoft, *Hb. Rk.* :—Walsham, *Hb. Dun.*
 2. Nayland and Long Melford :—Kersey, *E.F.L.*
 3. Benacre ; Kessingland and Gorleston.
 4. Redgrave ; Blythburgh and Westleton :—Gt. Glemham, *E.N.B.*
 5. Claydon.
- Earliest notice 1837. Mrs. French.

DROSERACEÆ.

Drosera, Linn.

1. *D. rotundifolia*, Linn. *Round-leaved Sundew.*
 Bab. Man. 44. Hook. St. Fl. 150. H. & S. 33. Hist. Yarm.
 Top. Bot. Suff. E. and W.
 Small annual in bogs on Sphagnum ; not rare.
 July, August.
 1. Thelnetham :—near Eriswell Lode, Mildenhall, *Sir C.J.F.B.* :—Cavenham and Tuddenham, *W.J.* :—Lakenheath, *E. Sk.*
 3. Belton :—Fritton ; Somerleyton ; Lowestoft and Benacre, *E. Sk.*
 4. Redgrave Fen || ; Dunwich || :—Snape, *E.N.B.* :—Westleton Moor, *Ms. Davy* :—Walberswick, *J.H.G.*
 First record 1828. Davy.
2. *D. intermedia*, Hayne. *Intermediate Sundew.*
 Bab. Man. 44, 45. Hook. St. Fl. 150. H. & S. 33. Hist. Yarm.
 Top. Bot. Suff. E. and W.
 Small annual in bogs ; occasionally, but not always, on Sphagnum ; rare.
 July, August.
 1. Tuddenham, *Hb. Sk.* :—Lakenheath, *Sk. ms.* :—Thelnetham Fen, *J.S.S.*
 3. Lound, *Paget* :—Beccles, *Crabbe* :—Belton and Fritton, *Wigg.*
 4. Redgrave Fen || :—Westleton, *Ms. Davy.*
 First record 1805. Various, see *B.G.*
3. *D. anglica*, Huds. *English Sundew.*

Bab. Man. 45. Hook. St. Fl. 150. H. & S. 33. Top. Bot. Suff. E. and W.

Herbaceous annual in bogs ; very rare. July, August.

1. Tuddenham, *Hb. Wils.* :—Mildenhall, in bogs, *Sir C.J.F.B.* :—Lakenheath, *H. & S.* :—Thelnetham, *J.S.S.*

4. Redgrave Fen, *C. J. Ashfield.*

First notice 1830. *Hb. Wilson.*

FRANKENIACEÆ.

Frankenia, *Linn.*

1. *F. lævis*, *Linn.*

Sea Heath.

Bab. Man. 45. Hook. St. Fl. 52. H. & S. 11. Top. Bot. Suff. E.

Herbaceous perennial ; on muddy sea-shores. August.

3. Southwold, *Hbb. Blk. & Dun.* :—Lothingland, *Ray*, (now extinct in this locality).

4. Walberswick || :—Thorpe, *Hele & Sir C.J.F.B.*

5. Felixstowe, *W. H. Purchas* :—Felixstowe Ferry, *I.S. Soc.*

Earliest record 1696. *Ray.*

POLYGALACEÆ.

Polygala, *Linn.*

1. *P. vulgaris*, *Linn.*

Common Milkwort.

Bab. Man. 46. Hook. St. Fl. 50. H. & S. 18. Hist. Yarm. Top. Bot. Suff. E. and W. Hist. Wher. Galp 53.

Perennial herb, with woody root ; in dry heaths and fens. June to September.

1. Lakenheath ; Barnham ; Risby ; Fakenham ; Honington ; Hopton and Haughley :—Newmarket, *Hb. Blk.* :—Stanton, *Hb. Dun.* :—Stowlangtoft, *Hb. Rk.* :—Tuddenham, *E. Sk.* :—Barton Mills and Mildenhall, *Sir C.J.F.B.* :—Hardwick, *Hb. Wils.* :—Bury, *Hb. Ly.*

2. Cockfield, *W.J.* :—Hitcham, *Hb. Hens.* :—Long Melford, *J.F.W.*

3. Belton and Lowestoft :—Corton, *Phyt. N.S.* 1862 :

—Benacre, *E. Sk.*:—Homersfield Heath, *Galp.*

4. Redgrave; Dunwich; Westleton:—Yaxley, *Sewell*:

—Snape, *E.N.B.*

5. Hemingstone, *T.B.*:—Woolverstone, *H.M.S.*:—
Wherstead, *Haward*:—Rushmere Heath, *I.S. Soc.*

Var. *P. oxyptera*, Reichb.

Bab. Man. 46. Hook. St. Fl. 51.

1. Euston ||; Knettishall Heath; Risby:—Mildenhall Heath, *H. G. Glasspoole in Hb. Geld.*

Var. *P. depressa*, Wender.

P. serpyllacea, Weike.

Bab. Man. 46. Hook. St. Fl. 51.

1. Knettishall Heath ||.

2. Thurlow, *Hb. F.*

Var. ‘*ciliata*,’ Lebel.

Bab. Man. 46. Hook. St. Fl. 51. Top. Bot. Suff. W.

1. Elveden:—West Suffolk, *Arth. Bennett.*

Earliest notice 1773. Sir J. Cullum.

CARYOPHYLLACEÆ.

Dianthus, *Linn.*

2. *D. Armeria*, *Linn.*

Deptford Pink.

Bab. Man. 50. Hook. St. Fl. 53. H. & S. 11. Top. Bot. Suff.
E. & W. Galp. 53.

Annual; found on banks and waste places; rare.

July, August.

1. Barton, *Hb. Sk.*

2. Sudbury, *J.S.H.*

3. Bungay||:—Shipmeadow and Mettingham; between
Beccles and Bungay and St. Cross, *Holmes*:—Oulton, *McAub*:—
South of Lake Lothing and Lowestoft, *E. Sk.*

4. Mendham, *H.B.C.*:—Wetheringsett, *Hb. Peck*:—
Palgrave, *Collins.*

5. Coddendam, *T.B.*:—Needham Market, *E. Clowes.*

Earliest record 1828. Davy.

*3. *D. plumarius*, *Linn.*

Common Pink.

Bab. Man. 50. Hook. St. Fl. 54.

Herbaceous perennial; on old walls; rare. June.

1. Formerly on the Abbey Walls, Bury, *Hb. Wils. & Hb. Ly.*

Earliest record 1834.

*4. *D. Caryophyllus*, *Linn.* Clove Pink.

Bab. Man. 50. Hook. St. Fl. 54.

Perennial herb; on old walls; rare. July, August.

4. Walls of Crowe Hall, July 18. 1879, *C.B.*

Earliest notice 1879. Dr. Babington.

6. *D. deltoides*, *Linn.* Maiden Pink.

Bab. Man. 51. Hook. St. Fl. 53. H. & S. 11. Hist. Bury.

Top. Bot. Suff. E. ? and W.

Small perennial herb; on sandy pastures; almost confined to one district of the County. June to September.

1. West Stow Churchyard and Heath|| :—Icklingham, *Hbb. Blk. & Sk.* :—Mildenhall, *Hb. Dun.* :—Livermere, *Rev. H. James* :—Tuddenham Common||, *W.J.* :—Thetford Heath, *F.* :—Culford Park, *Gray* :—Culford Heath, *H. & S.* :—Brandon, *Sk. ms.*

5. On a sandy grassy hill, Coddendam, *F. Fox ? ?*

Earliest notice 1773. Sir J. Cullum.

Saponaria, *Linn.*

*1. *S. officinalis*. *Linn.* Soapwort.

Bab. Man. 51. Hook. St. Fl. 54. H. & S. 11, 12. Hist. Fram.

Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 53.

Showy perennial herb; generally near dwellings, in or near hedges, and most probably introduced. Aug., Sept.

1. Elmswell and Ingham :—Mildenhall, *Hb. Dun.* :—Tuddenham, *Rev. F. Tearle* :—Barningham, *Rick.* :—Santon Downham, *Norgate.*

2. Stoke-by-Clare :—Hedge-bank in Church-lane, Cockfield, *C.B.* :—Kettlebaston, *Dr. White* :—Glemsford, *J.F.W.* :—Lit. Thurlow, *F.*

3. Burgh Castle ||, *Paget* :—Lowestoft, *Hb. Sk.* :—Gorleston, *Phyt.* :—Bungay, *H. & S.* :—Herringfleet, *Sk. ms.* :—Hedge near Beccles, *F. Turner* :—Flixton, *H.B.C.* :—Oulton, *McAub.*

4. Glemham (*flore pleno*), *Hb. Cas.*:—Snape, *Hele*:—Framlingham, *Crabbe*:—Westleton, Yoxford, and Hacheston, *Ms. Davy*:—Walberswick, *Holmes*:—Eye, *E. S. Marshall*.

5. Bawdsey:—Ipswich, *Hb. F.*:—Aldeburgh, and opposite Seekford Hospital, Woodbridge, *Moor*:—Barham, *Trimmer*:—Baylham, *E. Clowes*:—Bramford and Blakenham, *Dr. White*:—Marlesford, *E.N.B.*:—Coddendenham, *F. Fox*:—Claydon, *Hb. Wils.*:—Brantham, *Mrs. Browning, C.B.*:—Creeting, *Miller*:—Eyke, *Ms. Davy*:—Bramford, *L.S. Soc.*

Earliest notice 1773. Sir J. Cullum.

[*S. vaccaria*, Linn. Oulton, *McAub.*; a casual.]

Silene, Linn.

1. *S. gallica*, Linn.

S. anglica, Linn.

English Catch-fly.

Bab. Man. 51. Hook. St. Fl. 55. H. & S. 12. Hist. Fram.
Hist. Yarm. Hist. Bury. Top. Bot. Suff. E. and W. Galp. 53.

Annual, growing on gravelly soil, especially near the sea. June to October.

1. Honington:—Troston Heath Field, *Hb. Cas*:—Barton, *Hb. Rk.*:—Higham, *W.J.*:—Herringswell, *F. Tearle*:—Shelland, *J. Rasor*:—Hopton, *E.F.L.*:—Westley; Barrow Bottom, *Sir T. G. Cullum*:—Tuddenham, *H. & S.*

3. Gorleston ||; Covehithe:—Lound, *Wigg*:—Bradwell, *D. Turner*:—Bungay, *Woodward*:—Lowestoft, *H. & S.*:—Belton; Corton and Gunton, *E. Sk.*:—Easton Bavent, *Holmes*:—St. Margaret's (*E.A.H.*), *Galp.*

4. Gt. Glemham, *E.N.B.*:—Friston, *Hele*:—Framlingham, *Crabbe*:—Dennington, *T.W.G.*:—Farnham, *Crabbe*:—Dunwich, *Holmes*.

5. Aldeburgh:—Gt. Bealings, *Moor*:—Woodbridge; Sutton and Marlesford, *Crabbe*:—Holbrook, *Haward*.

Var. *b.* *S. quinquevulnera*, Linn.

Bab. Man. 51. Hook. St. Fl. 55. H. & S. 12.

1. Honington ||; a casual. 5. Sutton, *Crabbe*.

Earliest notice 1773. Sir J. Cullum.

[2. *S. nutans*, Linn.

Nottingham Catchfly.

Bab. Man. 51. Hook. St. Fl. 56.

Usually on limestone rocks; only a casual on ballast in Suffolk. June, July.

5. Ipswich Docks, 1885 ||. Hind.]

3. *S. Otites*, Sm.

Spanish Catchfly.

Bab. Man. 52. Hook. St. Fl. 56. H. & S. 12. Hist. Bury.

Top. Bot. Suff. W.

Herbaceous perennial on the sandy soil of the Breck district. June to August.

1. Newmarket Heath, *Mr. Sare in Howe's Phyt. Br.* :—Fornham St. Martin, *Sir T. G. Cullum* :—Barnham || and Elveden || :—Risby Heath; Tuddenham and Mildenhall, *C.B.* :—Rushford Heath, *Hb. F.* :—Euston and Barton Mills, *F.* :—Icklingham, *E.F.L.* :—Gravel pit at Worlington, *Miss Bullender* :—Thetford, *Hb. Sk.* :—Culford Heath, *Gray* :—West Stow, *Gedge* :—Cavenham and Eriswell, *Sk. ms.* :—Heath West of Icklingham Church, *Sir J. Cullum, 1771*, *Dill Ray, Hort. Ox.* :—road-side from Barton Mills to Thetford, *Ray* :—Brandon, *Norgate*.

First notice 1650. Sare.

4. *S. inflata*, Sm.

S. Cucubalus, Wibel.

Bladder Campion, Whitebottle.

Bab. Man. 52. Hook. St. Fl. 55. H. & S. 12. Hist. Yarm.

F Hist. Wher. Galp. 53. Top. Bot. Suff. E. and W.

Herbaceous perennial; in fields; usually on light soil; frequent. June to August.

Plentiful in all the districts.

The Rev. J. D. Gray thinks that he found *S. puberula*, Jord., at Nayland.

First notice 1774. Sir. J. Cullum.

5. *S. maritima*, With.

Seaside Campion.

Bab. Man. 52. Hook. St. Fl. 55. H. & S. 12. Top. Bot. Suff. E.

Herbaceous perennial; only on gravel and turf by the sea-coast in Suffolk; on alpine cliffs in mountainous districts. June to August.

3. Lowestoft and Kessingland :—Southwold, *Ms. Davy & W.J.*

4. Dunwich and Walberswick.

5. Felixstowe || :—Landguard Fort, *Hb. Blk.* :—Aldeburgh, *Hbb. Cas. Dun. & F.* :—Ramsholt, *Sir J. Cullum* :—be-

tween Aldeburgh and Orford,' *Dill. Ray in Hort. Ox.*
Earliest notice 1771. Sir J. Cullum.

6. *S. conica*, Linn.

Conical Catchfly.

Bab. Man. 52. Hook. St. Fl. 55. H. & S. 12. Top. Bot. Suff. W.

Annual; frequent in parts of the Breck country, and sandy portions of the N.W. district; absent from most of the other parts of the County. July, August.

1. Culford Heath ||; Brandon; Elveden; Thetford; Barnham and Fakenham:—near Northgate Station, Bury, *C.B.*:—Mildenhall, *Hb. Blk.* & *Sir C.J.F.B.*:—Barton Mills, *Hb. F.*:—Eriswell and Lakenheath, *A.B.*:—Tuddenham and Risby, *W.J.*:—Icklingham, *H. & S.*

5. Wherstead?, *Haward.*

Earliest notice 1800. Sir J. E. Smith.

[*Silene Catholica*, Ait., was found in the village of Great Livermere, near Bury St. Edmunds, amongst the trees separating the park from the grounds of the Parsonage. *George Wolsey. Phyt. N.S. ii. 220.* It is well established in a shrubbery at Southgate Green, Bury St. Edmunds.]

7. *S. noctiflora*, Linn.

Night flowering Catchfly.

Bab. Man. 53. Hook. St. Fl. 56. Hist. Bury. Hist. Fram. Hist. Yarm. Galp. 54. Top. Bot. Suff. E. and W.

Annual; frequent in Suffolk, especially on light soils.

July, August.

1. Honington ||; Culford Heath; Risby; Livermere; Fakenham; Sapiston; Elmswell; Harleston and Wetherden:—Kennet, *C.B.*:—Barton, *Hb. Blk.*:—Hardwick, *Hb. Sk.*:—Pakenham, *Hb. Cas.*:—Rougham, *Hb. Rk.*:—Woolpit, *Hb. F.*—Mildenhall, *Sir C.J.F.B.*:—Hawstead, *Sir J. Cullum*:—Bury, *Sir T. G. Cullum*:—Hesset, *Hb. Ly.*:—Ing-ham, *Gray*:—Barningham and Coney Weston, *E.F.L.*:—Santon Downham, *Norgate*:—Higham; Barrow; Thurston and Welnetham, *Sk. ms.*

2. Long Melford:—Cockfield, *W.J.*:—Hitcham, *Hb. Hens.*

3. Gorleston:—Herringfleet, *D. Turner*:—Bungay, *Ms. Davy*:—St. Margaret's, *Holmes*:—Corton, *A.B. in Hb. Geld.*

4. Redgrave and Botesdale:—Gt. Glemham, *E.N.B.*:

—Framlingham, *Crabbe*.

5. Stutton :—Wherstead, *Haward*.

Earliest notice 1773. Sir J. Cullum.

Lychnis, *Linn*.

3. *L. Flos-cuculi*, *Linn*.

Ragged Robin.

Bab. Man. 53, 54. Hook. St. Fl. 57. H. & S. 12. Hist. Fram.
Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 54.

Showy herbaceous perennial; common in moist meadows and in marshes.

May, June.

Well represented in all the districts; (var. *flore pleno* at Bardwell.)

First notice 1773. Sir J. Cullum.

4. *L. vespertina*, *Sibth*.

L. alba, Mill.

White Champion.

Bab. Man. 54. Hook. St. Fl. 57. H. & S. 12. Hist. Fram.
Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 54.

Herbaceous biennial?; somewhat common in fields.

This and the following species are seldom found near together.

June to September.

Frequent in all the districts.

Earliest notice 1773. Sir J. Cullum.

5. *L. diurna*, *Sibth*.

Red Champion.

Bab. Man. 54. Hook. St. Fl. 57. H. & S. 12. Hist. Fram.
Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 54.

Showy herbaceous perennial; found in moist and shady places; tolerably common.

May to July.

Occurs in all the districts.

First notice 1773. Sir J. Cullum.

6. *L. Githago*, *Scop*.

Corn Cockle.

Bab. Man. 54. Hook. St. Fl. 58. H. & S. 12. Hist. Yarm.
Top. Bot. Suff. E. and W. Hist. Wher. Galp. 54.

Large-flowered annual; usually in corn-fields.

May to August.

Tolerably frequent in all the districts.

First notice 1773. Sir J. Cullum.

Buffonia, Linn.

[B. tenuifolia, Sm.

Bab. Man. 54. Hook. St. Fl. 530.

Marshes near Yarmouth, *Ms. Davy*. Likely an error.

Only record 1828 ? *Davy*.]

Sagina, Linn.

1. *S. procumbens*, Linn. *Procumbent Pearlwort*.

Bab. Man. 54, 55. Hook. St. Fl. 66. H. & S. 13. Hist. Fram.

Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 55.

Small perennial ; frequent in waste ground.

May to September.

Distributed through all the districts.

Form *S. maritima*, Gren. non Don.

Bab. Man. 55.

3. Benacre.

Var. *b.* *S. spinosa*, Gibs.

Bab. Man. 55. Hook. St. Fl. 66.

1. Honington.

Earliest notice 1773. Sir J. Cullum.

2. *S. apetala*, Linn. *Apetalous Pearlwort*.

Bab. Man. 55. Hook. St. Fl. 66. H. & S. 13. Hist. Fram.

Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W.

Small annual ; on walls and dry soil. May to Septr.

1. Honington || ; Brandon ; Euston ; Troston and West Stow :—Barton, *Herb. Blk.* :—Stowlangtoft, *Hb. Rk.* :—Coney Weston, *E.F.L.* :—Bury and Tuddenham, *E. Sk.* :—Lackford, *Hb. Ly.*

2. Clare ; Wixoe :—Hitcham, *Hb. Hens.*

3. Corton ; Gorleston ; Hopton and Kessingland :—Lowestoft, *E. Sk.*

4. Gt. Glemham, *E.N.B.*

5. Felixstowe, *W. H. Purchas* :—Wherstead, *Haward*.

Form *b.* *S. prostrata*, Bab.

Bab. Man. 55.

1. Honington.

3. Hopton.

Earliest notice 1798. Rev. G. Crabbe.

3. *S. ciliata*, *Fries.**Ciliate Pearlwort.*

Bab. Man. 55. Hook. St. Fl. 66. Top. Bot. Suff. E. and W.
 Small annual; on sandy heaths; rare. May to July.

1. Thetford, *Newbould*:—Coney Weston, *E.F.L.*:—
 Barnham Heath.

3. Covehithe ||; Lowestoft, *C.O.B.*

First record 1847. Newbould.

4. *S. maritima*, *Don.**Sea Pearlwort.*

Bab. Man. 55. Hook St. Fl. 66. Hist. Yarm. H. & S. 13.
 Top. Bot. Suff. E.

Small annual; on the sea-shore. May to Sept.

3. Gorleston, *J. Backhouse*:—Southwold, *Holmes*:—
 Lowestoft ||, *Hb. F.*

4. Walberswick ||, *Holmes.* 5. Felixstowe, *H.M.S.*

Earliest notice 1810. Backhouse in Paget.

8. *S. nodosa*, *E. Meyer.**Knotted Spurry.*

Bab. Man. 56. Hook. St. Fl. 67. H. & S. 13. Hist. Yarm.
 Hist. Bury. Top Bot. Suff. E. and W.

Small herbaceous perennial; frequent in moist heaths
 and marshes. July to September.

1. Brandon ||; Troston ||; Elveden; Thetford;
 Ampton; Lakenheath; Knettishall; Coney Weston; Hop-
 ton and West Stow:—Barton, *Hb. Blk.*:—Barton Mere,
Hb. Rk.:—Pakenham, *Hb. Cas.*:—Tuddenham, *W.J.*:—
 near Barton Mills, *Miss Bullender*:—Mildenhall, *Sir C.J.F.B.*:—
 Bury, *Sir J. Cullum*:—Cavenham, *Sk. ms.*

3. Benacre:—Lowestoft, *Hb. Sk.*:—Bungay, *H. & S.*:—
 Belton, *J. Priest in Hb. Geld.*

4. Wortham Green, *C. J. Ashfield*:—Benhall and Size-
 well, *H. & S.*

5. Aldeburgh.

First record 1773. Sir J. Cullum.

Honkeneja, *Ehrh.*1. *H. peploides*, *Ehrh.**Arenaria peploides*, *Linn.**Sea Purslane.*

Bab. Man. 56. Hook. St. Fl. 65. H. & S. 13. Hist. Yarm.
 Top. Bot. Suff. E.

Procumbent herbaceous perennial; common on sandy sea-shores. May to August.

3. Lowestoft ||; between Gorleston and Lowestoft; Kessingland; Covehithe:—Southwold, *Hb. Dun.* & *T. Martyn.*

4. Dunwich and Walberswick:—Thorpe, *Hele.*

5. Felixstowe:—Aldeburgh, *Hb. F.* & *C.B.*:—Orwell, *Hb. Blk.*:—Landguard Fort, *W.L.N.*:—Ramsholt, *Sir J. Cullum.*:—Brantham and Ipswich, *C.B.*:—Woodbridge, *Hb. Ly.*

Earliest notice 1763. T. Martyn.

Alsine, *Wahl.*

1. *A. tenuifolia*, *Wahl.* *Fine-leaved Sandwort.*

Bab. Man. 57. Hook. St. Fl. 64. H. & S. 13. Hist. Bury. Top. Bot. Suff. W.

Small annual; in sandy heaths and fields, also on walls; chiefly confined to the Breck district. May to July.

1. Fakenham ||; Barton Mills; West Stow Heath; Thetford || and Troston ||:—Risby, *C.B.*:—Mildenhall, *Sir C.J.F.B.*:—Abbey walls, Bury, *Hb. Sk.*:—Newmarket, *Winch.*:—between Thetford and Elveden, *E.F.L.*:—Westley, *Blackett.*:—Higham and Tuddenham, *H. & S.*:—Cavenham and Coney Weston, *Sk. ms.* Tuesday, 1st June, 1773.—‘In and near the large plantation of Scotch Firs, before you come to Cavenham; chalky and dry.’—*Sir J. Cullum.*

2. Thurlow, *F.*

5. Iken Common, *Holmes.*

Var. *A. laxa*, *Jord.*

Bab. Man. 57. Hook. St. Fl. 64.

1. Troston ||; Fakenham; Mildenhall:—Redneck Heath, Thetford, *Bot. Gaz.* No. 1, 1849, fide *Phyt. O.S.*, cv. 777, 1850:—Herringswell; Icklingham and Mildenhall, *Jas. Duthie, J. of B.* IX, 271:—near Lakenheath, *A.B.* 1876.

Var. *A. hybrida*, *Jord.*

Bab. Man. 57. Hook. St. Fl. 64.

1. Troston ||; Mildenhall ||; West Stow Heath:—Redneck Heath, *Rev. W. W. Newbould.* Syme, *E.B.* 3rd Ed. 113, also *A.B.*:—Thetford, *Sir J. D. Hooker.*:—Icklingham and Elveden, *E.F.L.*

Earliest notice 1773. Sir J. Cullum.

Arenaria, *Linn.*

1. *A. Trinervia*, *Linn.* *Three-veined Sandwort.*
 Bab. Man. 57. Hook. St. Fl. 64. H. & S. 13. Hist. Fram.
 Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W. Galp.
 Small procumbent annual; frequent in woods and shady
 places. May, June.
 In all the districts.
 Earliest record 1774. Sir J. Cullum.

2. *A. serpyllifolia*, *Linn.* *A. sphærocarpa*, Tenore.
Thyme-leaved Sandwort.
 Bab. Man. 58. Hook. St. Fl. 64. H. & S. 13. Hist. Yarm.
 Top. Bot. Suff. E. and W. Galp. 55.
 Small annual; very common on walls and in cultivated
 fields. June to August.
 In all the districts.
A. glutinosa, Koch.
 1. Thetford||. 3. Aldeburgh.
 Earliest record 1773. Sir J. Cullum.

3. *A. leptoclados*, *Guss.* *Slender-branched Sandwort.*
 Bab. Man. 58. Hook. St. Fl. 64. Galp. 55.
 Small annual; until recently included in preceding
 species; frequent on walls and dry sandy soils.
June to August.
 1. Honington||; Sapiston; Barnham Heath; Euston;
 Wangford; Eriswell and Kennet:—Fornham, *Hb. Blk.*:—
 Lakenheath, *G. C. Druce*, Rec. Club, 1883.
 2. Nayland:—Kersey, *E.F.L.*
 3. Fritton and Kessingland:—Flixton, *Galp.*
 5. Claydon; Aldeburgh.
 Earliest notice about 1830 to 40. Lady Blake.

Holosteum, *Linn.*

1. *H. umbellatum*, *Linn.* *Umbellate Holosteum.*
 Bab. Man. 58. Hook. St. Fl. 58. H. & S. 13. Hist. Bury.
 Galp. 54.
 Small annual; on old walls and roofs; very rare, or
 extinct. April.

1. 'Bury, on the wall leading from May Water Lane to Southgate Street. This is a plant not mentioned by any author as growing wild in England, except by Gerard. I have been since informed that it has been found growing on the walls at Norwich. Friday, 23rd April, 1773.' *Sir J. Cullum*. 'Formerly grew on thatched roofs just beyond the railway station, Northgate, Bury,' *H. & S.*

4. Eye, May, 1836, *Hb. Cas.* 'Plentiful on walls at Eye,' *A.B. ms.*:—sparingly on the ruins at Hoxne Abbey, *Collins*.

Earliest notice 1773. *Sir J. Cullum*.

Stellaria, *Linn.*

2. *S. media*, *Vill.* *Chickweed.*

Bab. Man. 59. Hook. St. Fl. 62. H. & S. 14. Hist. Yarm.
Top. Bot. Suff. E. and W. Hist. Wher. Galp. 55.

Annual; very common in waste places and fields.

March to September.

In all the districts.

Var. *b.* *S. Boræana*, *Jord.*

Bab. Man. 59. Hook. St. Fl. 62.

1. Troston Heath ||; Elveden; West Stow Heath;
Cavenham:—Icklingham, *E. S. Marshall*.

3. Lowestoft, *E.F.L.*

c. *S. neglecta*, *Weihe*.

Bab. Man. 59. Hook. St. Fl. 62.

1. Hopton ||. 2. Polstead; Stoke and Wiston.

d. *S. umbrosa*, *Opitz.* (Perennial.)

Bab. Man 59. Hook. St. Fl. 62.

1. Between Culford Heath and Bury, *G. C. Druce*.

First record 1773. *Sir J. Cullum*.

3. *S. Holostea*, *Linn.* *Greater Stitchwort.*

Bab. Man. 59. Hook. St. Fl. 62. H. & S. 14. Hist. Fram.
Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 55.

Climbing herbaceous perennial; common, especially on
clay soils, in hedge-banks. April to June.

Occurs in all the districts.

First notice 1773. *Sir J. Cullum*.

4. *S. glauca*, *With.* *S. palustris*, Ehrh.*Glaucous Stitchwort.*

Bab. Man. 59, 60. Hook. St. Fl. 62. H. & S. 14. Hist. Yarm.
Hist. Bury. Top. Bot. Suff. E. and W. Galp. 55.

Herbaceous perennial, growing in marshes; more frequent in Suffolk than in most other Counties. May to July.

1. Market and Coney Weston Fens; Knettishall; Bardwell; Troston; West Stow; Mildenhall; Lakenheath; Wangford and Brandon:—Icklingham, *Blackett*:—Cavenham, *Sir T. G. Cullum*:—Fornham, Tuddenham, and Santon Downham, *Sk. ms.*:—Eriswell, *C.B.*

3. Bungay:—Lowestoft, *Hb. Blk.*:—Belton, *Phyt. N.S.* 1843:—Bradwell, *D. Turner*. A Glabrous form occurs at Belton ||.

4. Redgrave Fen. 5. Wherstead, *Haward*.
First notice 1776. Sir J. Cullum.

5. *S. graminea*, *Linn.* *Lesser Stitchwort.*

Bab. Man. 60. Hook. St. Fl. 62. H. & S. 14. Hist. Fram.
Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 55.

Straggling herbaceous perennial; common in pastures and heaths. May to August.

In all the districts.

First notice 1773. Sir J. Cullum.

6. *S. uliginosa*, *Murr.* *Bog Stitchwort.*

Bab. Man. 60. Hook. St. Fl. 63. H. & S. 14. Hist. Fram.
Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 55.

Small herbaceous perennial; in ditches and moist places. May, June.

1. Thetford ||; Brandon; Wangford; Fakenham; Honington; Ixworth Thorpe; Knettishall; Troston:—West Stow and Bury, *H. & S.*:—Mildenhall, *Sir C.J.F.B.*:—Pakenham, *Hb. Cas.*:—Tuddenham, *Sk. ms.*

2. Nayland; Polstead and Wiston:—Rede, *Hb. Turn.*

3. Bungay:—Lowestoft, *Hb. Sk.*:—Benacre and Fritton, *Sk. ms.*:—St. Olaves, *C.A.W.*

4. Redgrave Fen:—Gt. Glemham, *E.N.B.*: Benhall and Snape, *H. & S.*:—Framlingham, *Crabbe*:—Weybread, *Galp.*

5. Woodbridge, *Hb. Ly.*

Earliest record 1773. Sir J. Cullum.

Malachium, *Fries.*

1. *M. aquaticum*, *Fries.* *Stellaria aquatica*, Scop.
Great Chickweed.

Bab. Man. 60. Hook. St. Fl. 61. H. & S. 14. Hist. Fram.
Top. Bot. Suff. E. and W. Hist. Wher. Galp. 55.

Large straggling herbaceous perennial; on banks of rivers and in boggy places. May, June.

1. Honington ||; Sapiston; Bardwell; Ixworth Thorpe; Tuddenham; Barton Mills and Mildenhall:—Fornham, *Hb. Blk.*:—Pakenkam, *Hb. Cas.*:—Walsham, *Hb. Dun.*:—Stowlangtoft, *Hb. Rk.*:—Gt. Finborough, *Lady Pettiward*:—Hopton, *E.F.L.*:—Woolpit, *J. Rasor*:—Hardwick, *Hb. Sk.*:—Bury and Lackford, *H. & S.*:—Ickworth, *Sk. ms.*

2. Nayland:—Cockfield, *W. J.*:—Gt. Thurlow, *Hb. F.*

3. Bungay; Beccles:—Flixton, *H.B.C.*

4. Mellis and Wortham:—Gt. Glemham, *E.N.B.*:—Framlingham, *Crabbe*:—Badingham, *T.W.G.*:—Mendham and Weybread, *H.B.C.*

5. Trimley, *Trimmer*:—Bergholt, *Dr. White*:—Wherstead, *Haward*.

Earliest notice 1772. Sir J. Cullum.

Cerastium, *Linn.*

1. *C. glomeratum*, *Thuil.* *Common Mouse-ear.*

Bab. Man. 60, 61. Hook. St. Fl. 59, 60. Hist. Yarm. Top.
Bot. Suff. E. and W. Galp. 54.

Annual weed; common on banks and in fields.

April to September.

Plentiful in all the districts.

First notice 1773. Sir J. Cullum.

2. *C. triviale*, *Link.* *Wayside Mouse-ear.*

Bab. Man. 61. Hook. St. Fl. 60. H. & S. 14. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. and W. Galp. 54.

Small perennial weed; very common in pastures, waysides and waste places. April to September.

In all the districts.

First notice 1773. Sir J. Cullum.

3. *C. semidecandrum*, Linn. *Semidecandrous*
Mouse-ear.

Bab. Man. 61. Hook. St. Fl. 59. H. & S. 14. Hist. Fram.
Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 54.

Small annual weed ; plentiful on dry heaths, denes, and waste places. April, May.

1. Elveden || ; Brandon ; Barnham : Fakenham ; Honington and Sapiston :—Icklingham, *Hb. Sk.* :—Mildenhall, *Hb. Blk.* :—Troston Heath, *Hb. Cas.* :—Tuddenham and West Stow, *E. Sk.* :—Heberden, Bury, *Sir. J. Cullum* :—Thetford Heath, *A.B.*

2. Hitcham, *Hb. Hens.*

3. Lowestoft, *E.F.L.* :—Homersfield, *H.B.C.*

4. Gt. Glemham and Snape, *E.N.B.* :—Framlingham, *Crabbe.*

5. Felixstowe || ; Claydon.

A form approaching the var. *C. pellucidum*, Chaub, was gathered at Mildenhall, May, 1888.

Earliest notice 1773. Sir J. Cullum.

5. *C. tetrandrum*, Curt. *Tetrandrous Mouse-ear.*

Bab. Man. 61. Hook. St. Fl. 59. Hist. Yarm. Top. Bot.
Suff. E. H. & S. 14.

Small annual weed ; sandy places, usually by the sea.

May to July.

1. Lakenheath to Wangford, *G. C. Druce*, Rec. Club, 1883.

3. Lowestoft :—Southwold, *Holmes.*

4. Yoxford, *Crabbe.*

5. Felixstowe || :—Orford Beach, *H. & S.*

Earliest record 1805. Rev. G. Crabbe.

6. *C. arvense*, Linn. *Field Mouse-ear.*

Bab. Man. 62. Hook. St. Fl. 60. H. & S. 14. Hist. Yarm.
Hist. Bury. Top. Bot. Suff. E. and W.

Herbaceous perennial ; frequent on sandy and chalky soil, seldom on clay. April to August.

1. Barnham || ; Sapiston || ; Troston ; Honington ; Fakenham ; Euston ; Thetford ; Elveden ; Brandon ; Cavenham and West Stow :—Risby and Icklingham, *C.B.* :—Bury, *Hb. Sk.* :—Rougham, *Hb. Cas.* :—Stowlangtoft, *Hb. Dun.* :—Barton Mills, *F.* :—Mildenhall, *Sir C.J.F.B.* :—Tuddenham, *E. Sk.* :—Newmarket, *MM.* :—Santon Downham, *Norgate* :—Lackford, *Hb. Ly.*

3. Belton and Benacre. 4. Palgrave, *Collins*.
 5. Shrubland Park :—Grundisburgh, *T.H.*
 Earliest record 1773. Sir J. Cullum.

Moenchia, *Ehrh.*

1. *M. erecta*, *Sm.* *Cerastium quaternellum*, Fenzl.
Upright Moenchia.

Bab. Man. 62, 63. Hook. St. Fl. 59. H. & S. 13. Hist. Fram.
 Hist. Yarm. Tob. Bot. Suff. E. and W. Galp. 54.

Small annual; on dry pastures; not common.

May, June.

1. Fakenham ||; Sapiston and Ixworth Thorpe :—Pakenham, *Hb. Rk.* :—Troston, *Hb. Cas.* :—West Stow, *Gray* :—Woolpit, *F.* :—Icklingham, *E. Sk.* :—Barton, *Sir C.J.F.B.* :—Thetford, *Norgate*.

3. Bungay, *Stock* :—Lowestoft, *Hb. Sk.* :—Southwold Common, *Holmes* :—Homersfield Heath, *H.B.C.*

4. Snape, *Hele* :—Framlingham, *Crabbe* :—Wortham, *Collins*.

5. Nacton Heath, *Trimmer*.

Earliest record 1773. Sir J. Cullum.

Lepigonum, *Fries.*

1. *L. rubrum*, *Fries.* *Red Sand Spurry.*

Bab. Man. 63. Hook. St. Fl. 68. H. & S. 14. Hist. Yarm.
 Hist. Wher. Top. Bot. Suff. E. and W. Galp. 56.

Small annual; not unfrequent on gravelly soil.

May to September.

1. Ixworth Thorpe ||; Troston and Euston :—Rougham, *Hb. Blk.* :—Tuddenham Heath, *W.J.* :—Norton and West Stow, *Sk. ms.* :—Bury, *Sir J. Cullum*.

3. Near St. Olave's Bridge || :—Bungay, *H. & S.* :—St. Margaret's (E.A.H.), *Galp.* :—Southwold, *Holmes*.

4. Westleton || :—Benhall, *E.N.B.*

5. Ipswich, *W.L.N.* :—Walton, *Sk. ms.* :—Wherstead, *Haward* :—Creting, *Hb. Jeffes*.

Earliest notice 1773. Sir J. Cullum.

3. *L. salinum*, *Kindb.* *Spergularia salina*, *Prest.*
Sea-side Sand Spurry.

Bab. Man. 63. Hook. St. Fl. 68.

Annual; tolerably frequent on the sea-coast.

June to September.

3. Benacre ||; Gorleston and Breydon Water:—Lowestoft, *Sk. ms.*:—Covehithe, *M.L.H.*

4. Dunwich ||; Thorpe.

5. Catawade; Stutton; Chelmondistone; Ipswich and Aldeburgh.

Var. *L. neglectum*, Kindb.

Bab. Man. 64. Hook. St. Fl. 68.

4. Dunwich ||; Thorpe.

5. Catawade ||; Stutton ||; Aldeburgh:—Felixstowe, *Williams*.

Earliest notice 1847. Mrs. French.

4. *L. marinum*, *Wahl.* *Spergularia media*. Pers.
Salt-marsh Sand Spurry.

Bab. Man. 64. Hook. St. Fl. 68. H. & S. 14. Hist. Yarm.

Top. Bot. Suff. E. Hist. Wher.

Perennial herb; frequent in Salt-marshes. June to Sep.

3. Lowestoft, *Sk. ms.*:—Breydon Water and Cowhithe:—Southwold, *Hbb. Dunn. & Rk.*

4. Dunwich ||; Walberswick ||; Blythburgh.

5. Catawade, *E.F.L.*:—Stutton:—Aldeburgh, *Sir C.J.F.B.*:—Felixstowe, *W.H. Purchas*:—Wherstead, *Haward*:—Woodbridge, *Hb. Ly.*

Earliest notice 1834. Lathbury.

Spergula, *Linn.*

1. *S. arvensis*, *Linn.* *Field Spurry.*

Bab. Man. 64. Hook. St. Fl. 67. H. & S. 14. Hist. Yarm.

Hist. Bury. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 55.

Annual; very frequent on cultivated land. Jun. to Aug.

Common in all the districts:

Form *d. vulgaris*, Boenn.

Bab. Man. 64. Hook. St. Fl. 67.

1. Ixworth Thorpe ||; Honington; Sapiston; West Stow Heath.

3. Gorleston and Benacre:—Flixton, *Galp.*

4. Dunwich; Thorpe:—Mendham; Pit on Withersdale Road, *Galp.*

5. Wherstead, *Haward* :—Martlesham, *Hb. Ly.*

We doubt the permanence of the distinguishing feature of this variety. Seeds on the same plant are, some more, some less, covered with *papillæ* : these seem to fall off very easily, and so cause a difference in the appearance of the seeds.

First notice 1773. Sir J. Cullum.

Scleranthus, *Linn.*

1. *S. annuus*, *Linn.* *Annual Knapwell.*

Bab. Man. 64. Hook. St. Fl. 335. H. & S. 30. Hist. Yarm.
Top. Bot. Suff. E. and W. Hist. Wher. Galp. 97.

Small annual weed, frequent in corn-fields. June to Aug.
Occurs commonly in all the districts.

Form *S. biennis*, Reut. *Biennial Knapwell.*

Bab. Man. 64. Hook. St. Fl. 335.

1. Barnham Heath || :—Mildenhall, *Hb. Blk.* :—Sandyfield, Icklingham, and Sandypit, Lakenheath, *A.B.* :—Elveden, *E.F.L.* —Risby Heath ; Eriswell, *E. S. Marshall*.

2. Wiston || :—Cockfield, *C. B.*

— 3. Benacre :—Belton, *C.A.W.* —

4. Westleton Heath :—Wortham Ling, *E. S. Marshall*

5. Creeting Hills, *Hb. Jeffes.*

Earliest notice 1773. Sir J. Cullum.

2. *S. perennis*, *Linn.* *Perennial Knapwell.*

Bab. Man. 64. Hook. St. Fl. 335. H. & S. 30. Hist. Bury.
Top. Bot. Suff. W.

Small perennial occurring only in the Breck country and the adjoining region ; comparatively rare. June to Aug.

1. Barnham || ; near Elden, *Mr. Crowe*, 1768, *Dill. Ray. in Hort. Ox.* Elveden : || —Icklingham. *Hb. Sk.* :—Mildenhall, *Hbb. Blk.*, *Cas. & F.* ; also *Sir C.J.F.B.* :—Eriswell and Wangford ; Lackford ; West Stow and Culford, *Sir T. G. Cullum* :—Thetford, *E. Forster, jun.* :—Bury, *MM.* :—Lakenheath, *A.B.*

Earliest record 1696. Ray.

MALVACEÆ.

Malva, *Linn.*

1. *M. moschata*, *Linn.* *Musk Mallow.*

Bab. Man. 65. Hook. St. Fl. 76. H. & S. 16. Hist. Wher.
 Top. Bot. Suff. E. and W. Galp. 56.

Herbaceous perennial ; on banks and in gravelly places ;
 not very frequent. July, August.

1. Honington ||; Wicken ; Bardwell, *Hb. Dun.* :—
 Woolpit, *F.* :—Rattlesden, *Mrs. Parker* :—Rougham Heath,
Sk. ms.

2. Bures || and Nayland, *Gray* :—Hitcham, *Hb. Hens.* :
 —Sudbury, *Fulcher & J.S.H.*

3. Bungay, *Stock* :—Oulton, *McAub.* :—St. Margaret's,
Galp.

4. Weybread, *H.B.C.* :—Eye, *Hb. Peck* :—Wortham
 and Denham, *Collins* :—Hoxne, *Ms. Davy.*

5. Bergholt, *Dr. White* :—Gt. Bealings, *Moor* :—Chars-
 field, *T.B.* :—Grundisburgh, *T.H.* :—Martlesham, *T.W.G.* :
 —Wherstead, *Carss.* :—Belstead, *H. & S.* :—Shelley, *F. Spal-*
ding :—Washbrook, *Miller.*

First notice 1797. T. Martyn.

2. *M. silvestris*, *Linn.* *Common Mallow.*

Bab. Man. 65. Hook. St. Fl. 76. H. & S. 16. Hist. Yarm.
 Hist. Wher. Top. Bot. Suff. E. and W. Galp. 56.

Herbaceous perennial ; common in waste places and
 way-sides. June to September.

Frequent in all the districts.

First record 1773. Sir J. Cullum.

3. *M. rotundifolia*, *Linn.* *Dwarf Mallow.*

Bab. Man. 65. Hook. St. Fl. 76. H. & S. 16. Hist. Yarm.
 Hist. Wher. Top. Bot. Suff. E. and W. Galp. 56.

Herbaceous perennial ; frequent in waste places.

June to September.

Common in all the districts.

First record 1773. Sir J. Cullum.

Althæa, *Linn.*

1. *A. officinalis*, *Linn.* *Marsh Mallow.*

Bab. Man. 66. Hook. St. Fl. 75. H. & S. 16. Hist. Yarm.
 Hist. Bury. Top. Bot. Suff. E.

Herbaceous perennial ; frequent in marshes near the
 sea. August, September.

1. Near Stowmarket, *Herb. Cas.*; likely introduced.
 3. Kessingland:—Belton, *J. T. Syme*, *Phyt. O.S.* cxvii.
26:—Breydon Water, *Phyt. N.S.* 1862:—Somerleyton, *H. & S.*:
—Marsh ditches between Yarmouth and Beccles, not far
from St. Olave's Bridge, *Sir C. J. F. B.*:—between Blythburgh
and Southwold, *F. Spalding*.
 4. Between Dunwich and Sizewell; Snape, *E. N. B.*:
—Leiston Marshes, *Mrs. Toller*.
 5. Sutton||; Aldeburgh; Slaughden, *Hele*:—Cata-
wade, *Hb. Mg.*:—Walton Ferry, *H. & S.*:—Saltings at Iken,
Mrs. Toller.
- First record 1804. Sir T. G. Cullum.

Lavatera, Linn.

- ‡1. *L. arborea*, Linn. *Tree Mallow.*
Bab. Man. 66. *Hook. St. Fl.* 76.
 Herbaceous perennial; on the sea-coast; rare. We are
 not assured that any of the plants seen are truly wild.
July to September,
 3. Kessingland. 5. Felixtowe|| & *Hb. Sk.*
 Earliest notice 1862. E. Skepper.

TILIACEÆ.

Tilia, Linn.

- ‡1. *T. intermedia*, DC. *T. vulgaris*, Hayne.
Common Lime.
T. europæa, Linn.
Bab. Man. 67. *Hook. St. Fl.* 77. *H. & S.* 17. *Galp.* 57.
 Deciduous tree; in old plantations; not indigenous.
1. Euston; Fakenham; Harleston:—near Lord Lei-
 cester's woods at Denham, near Barrow, *Sir T. G. Cullum*:
 —Walsham, *Herb. Dun.*:—Bury, *Hb. Rk.*:—Hardwick, *Hb.*
Wils.
 2. Stoke-by-Nayland:—Hitcham, *Hb. Hens.*
 3. Benacre. 4. Botesdale.
- First record 1846. Mrs. Dunlap.
2. *T. parvifolia*, Ehrh. *T. cordata*, Mill.
Small-leaved Lime.
Bab. Man. 67. *Hook. St. Fl.* 77. *Cyb. Br. App.*

Small deciduous tree ; in old woods ; likely not native in Suffolk ; not very frequent. August.

1. Mildenhall ; Fornham, All Sts. ; Troston and Thurston :—Euston, *Hb. Fitz.R.* :—Bradfield, *Hb. Cas.* :—Denham, *Sir T. G. Cullum* :—Hardwick, *Hb. Wils.*

2. Lit. Thurlow, *Herb F.* :—Badmondisfield :—Gt. Waldingfield, *C.B.*

4. Brome, *Collins.*

5. Shrubland Park ||.

Earliest notice 1773. Sir J. Cullum.

†3. *T. grandifolia*, *Ehrh.* *T. platyphyllos*, *Scop.*
Great-leaved Lime.

Bab. Man. 67. Hook. St. Fl. 77.

Lofty deciduous tree ; in plantations ; introduced.

June, July.

1. Euston || ; Hopton ; Haughley.

3. Benacre.

First notice 1876. Hind.

HYPERICACEÆ.

Hypericum, *Linn.*

*1. *H. calycinum*, *Linn.* *Rose of Sharon.*

Bab. Man. 68. Hook. St. Fl. 72. H. & S. 15.

Small evergreen shrubby plant in woods and groves.

July to September.

1. Elveden, covering some acres in the woods :—Daltham, *Sk. ms.*

2. Near Hadleigh, *Mrs. Parker* :—near Sudbury, *J.S.H.*

5. Woods on Nacton Heath, apparently wild, *H & S.*
near Ipswich, *Miss Bell.*

Earliest notice 1835. Miss. Bell.

2. *H. Androsæmum*, *Linn.*

Tutsan.

Bab. Man. 68. Hook. St. Fl. 72. H. & S. 15.

Shrubby perennial ; in woods and hedges ; somewhat rare.

July, August.

1. Brandon, *Norgate.*

2. Clare :—Wiston ||, *Dr. Palmer*, 1881 :—Lidgate,
Rev. F. Tearle.

3. Bungay, *Hb. Sutt.*, 1838. Hedges at Holton and Weston, *Wigg.*

First record 1779. Sir J. Cullum.

3. *H. tetrapterum*, *Fries.* *H. quadratum*, Stokes.
Square-stemmed St. John's Wort.

Bab. Man. 68. Hook. St. Fl. 73. H. & S. 15. Hist. Yarm.
Top. Bot. Suff. E. and W. Hist. Wher.

Upright perennial; on the brink of streams and wet places. July.

Common in all the districts.

First record 1773. Sir J. Cullum.

5. *H. perforatum*, *Linn.* *Perforate St. John's Wort.*

Bab. Man. 69. Hook. St. Fl. 72. H. & S. 15. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. and W. Galp. 56.

Erect shrubby perennial; in woods and hedge-banks.

July, August.

Common in all the districts.

Var. *b.* *H. angustifolium*, Gaud.

Bab. Man. 69. Hook. St. Fl. 72.

1. Honington ||; Haughley and Stowlangtoft:—Woolpit, *J. Raser.*

3. Mettingham:—Oulton, *McAub.*:—Bradwell Lily pit, *J. Priest in Hb. Geld.*

4. Redgrave; Mellis.

5. Needham Market and Shrubland Park.

First record 1773. Sir J. Cullum.

6. *H. dubium*, *Leers.* *H. (a) quadrangulum*, L.
Imperforate St. John's Wort.

Bab. Man. 69. Hook. St. Fl. 73. H. & S. 15. Hist. Fram.
Top. Bot. Suff. E.

Herbaceous perennial; by ditches and in thickets. July.

1. Ixworth Thorpe ||:—hedges about Bury, *Hb. Wils.*

2. Stoke-by-Nayland:—Lit. Thurlow, *Herb. F.*

4. Botesdale ||:—Burgate Wood, *E. S. Marshall*:—Brockford, *Hb. Peck.*

5. Offton, *H. & S.*

(*b.*) *H. maculatum*, Bab.

Bab. Man. 69. Hook. St. Fl. 73.

1. Wetherden.

Earliest notice 1860. Henslow and Skepper.

7. *H. humifusum*, Linn. *Trailing St. John's Wort.*

Bab. Man. 69. Hook. St. Fl. 73. Hist. Yarm. Top. Bot. Suff. E. and W. Hist. Wher. Galp. 56.

Small trailing plant; in heathy places and woods. July.

1. Barton, *Hb. Blk.*:—Pakenham Wood, *Hb. Cas.*:—Bury, *Sir J. Cullum*:—Woolpit Heath, *Mrs. Parker*:—Rougham and Risby Heaths, *H. & S.*:—Felsham Wood and Tud-denham, *Sk. ms.*

3. Bradwell Common *Paget*:—Corton, *Phyt. N.S.* 1862, and Gorleston, 1863:—Lowestoft ||, *E.N.B.*:—Fritton and St. Olaves, *Sk. ms.*:—Hopton; *J. Priest in Hb. Geld.*

4. Weybread, *Miss Jeffes*:—Westleton, *Ms. Davy*:—Stuston Common, *Galp.*

5. Blaxhall and Otley, *E.N.B.*:—Bergholt, *Dr. White*:—Wherstead, *Haward.*

First notice 1773. Sir J. Cullum.

9. *H. hirsutum*, Linn. *Hairy St. John's Wort.*

Bab. Man. 69. Hook. St. Fl. 74. H. & S. 15. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 56.

Erect perennial; common in woods and hedges.

July, August.

1. Hinderclay ||; Bardwell; Fakenham; Coney West-ton; Ixworth Thorpe; Troston; Hawstead; Westley Wood; Harleston and Onehouse:—Pakenham Wood, *Hb. Cas.*:—Walsham, *Herb. Dun.*:—Woolpit, *J. Rasor*:—Barton, *Hb. Blk.*:—Barningham, *E.F.L.*:—Hardwick, *Hb. Sk.*:—Now-ton, *Hb. Wils.*:—Hepworth, *Hb. Salm.*—apparently absent from the Breck country.

2. Acton and Long Melford:—Cockfield, *W.J.*:—Hitcham, *Hb. Hens.*:—Thurlow, *Hb. F.*

3. St. Margaret's, *Holmes*:—Flixton, *H.B.C.*

4. Burgate; Peasenhall; Sibton:—Gt. Glemham, *E.N.B.*:—Framlingham, *Crabbe*:—Mendham, *H.B.C.*

5. Shrubland Park:—Grundisburgh, *T.H.*:—Wherstead, *Haward.*

First notice 1805. Rev. G. Crabbe.

11. *H. pulchrum*, Linn. *Slender St. John's Wort.*

Bab. Man. 70. Hook. St. Fl. 74. Hist. Yarm. Hist. Bury.
 Top. Bot. Suff. E. and W. Hist. Wher. Galp. 56.

Perennial plant in woods and on heaths; not very common.

June, July.

1. Troston ||; Fakenham Wood:—Barton, *Hb. Blk.*
 :—Pakenham, *C.B.*:—Woolpit, *Hb. F.*:—Tuddenham, *Hb.*
Sk.—Cavenham, *Sk. ms.*:—Dalham, *Rev. F. Tearle.*:—Forn-
 ham, *Hb. Wils.*

2. Polstead; Nayland and Wiston:—Sudbury, *Fulcher*
 & *J.S.H.*

3. Hopton:—Fritton; St. Olaves; Lowestoft and
 Southwold, *Sk. ms.*

4. N. W. end of Redgrave Fen:—Dunwich, *E.N.B.*
 :—Weybread, *H.B.C.*:—Mendham, *Galp.*

5. Tunstall, *E.N.B.*:—Brightwell, *Moor.*:—Wherstead,
Haward

Earliest notice 1773. Sir. J. Cullum.

12. *H. elodes*, Linn.

Marsh St. John's Wort

Bab. Man. 70. Hook. St. Fl. 74. H. & S. 15. Hist. Yarm.
 Hist. Bury. Top. Bot. Suff. E. and W.

Small herbaceous perennial in spongy bogs. July, Aug.

1. Tuddenham, *Rev. F. Tearle.*

3. Fritton Decoy ||:—Belton, *Hb. Sk.*:—Herringfleet,
E.N.B.:—Lowestoft, and Somerleyton, *Sk. ms.*

4. Dunwich ||:—Walberswick, *Holmes*:—Westleton,
Ms. Davy.

First notice 1775. Sir J. Cullum.

ACERACEÆ.

Acer, Linn.

1. *A. campestre*, Linn.

Maple.

Bab. Man. 70. Hook. St. Fl. 89. H. & S. 18. Top. Bot.
 Suff. E. and W. Galp. 59.

Small tree; in woods and hedges; common. May, June.

1. Barton ||; Hinderclay; Hopton; Honington; Mar-
 ket Weston; Livermere; Cavenham and Mildenhall:—
 Bury, *Hb. Sk.*:—Euston, *Hb. Dun.*:—Pakenham, *Hb. Cas.*:
 Stowlangtoft, *Hb. Rk.*

2. Nayland and Long Melford:—Cockfield, *W.J.*:—
 Hitcham, *Hb. Hens.*:—Kersey, *E.F.L.*

3. Bungay; Hopton and Benacre; Beccles:—South Elmham Hall, *Galp.*:—Belton, *J. Priest in Hb. Geld.*

4. Darsham; Framlingham and Oakley:—Knodishall and Gt. Glemham, *E.N.B.*

5. Shrubland Park; Claydon; Bergholt and Stutton:—Martlesham *Hb. Ly.*

First notice 1773. Sir J. Cullum.

†2. *A. Pseudo-platanus*, *Linn.* *Sycamore.*

Bab. Man. 70. Hook. St. Fl. 89. H. & S. 19. Top. Bot. Suff. E. and W. *Galp.* 59.

Large tree; an alien, now completely naturalized.

May, June.

1. Honington ||; Barnham; Fakenham; Brandon and Mildenhall:—Bury, *Hb. Sk.*:—Pakenham, *Hb. Cas.*:—Stowlangtoft, *Hb. Rk.*:—Hardwick, *Hb. Wils.*

2. Nayland and Long Melford:—Cockfield, *W.J.*:—Hitcham, *Hb. Hens.*

3. Bungay; Gorleston and Benacre.

4. Framlingham; Stuston and Brome:—Weybread, *Galp.*

5. Shrubland Park; Bergholt; Aldeburgh:—Gt. Bealings, *Moor.*

Earliest notice 1773. Sir J. Cullum.

GERANIACEÆ.

Geranium, *Linn.*

†1. *G. phæum*, *Linn.* *Dusky Cranesbill.*

Bab. Man. 71. Hook. St. Fl. 81. H. & S. 17. *Galp.* 57.
Perennial herb; about the edge of woods. May, June.

1. Livermere ||; edge of Ampton Wood, *Hb. Sk.*:—Bradfield St. George, *Miss Turner. C.B.!*

2. Whepstead, *Hb. Blk.*

3. Bungay (not truly wild), *Stock*:—Orchard, St. Margaret's (E.A.H.), *Galp.*

4. Huntingfield, *Holland*:—Sternfield, *Rev. J. Longe*, likely a garden stray:—Kettleburgh, *Ms. Davy*:—Worthingam, *Collins.*

5. Ashbocking, *Mrs. Cobbold*:—Bergholt, *H. & S.*:—Woodbridge, *Hb. Ly.*

First record 1800. Mrs. Cobbold.

2. *G. pratense*, Linn. *Blue Field Geranium.*

Bab. Man. 72. Hook. St. Fl. 80. H. & S. 17. Top. Bot. E.

Galp. 57.

Showy herbaceous perennial; in meadows.

June to August.

1. Livermere ||; Mildenhall:—Euston, *Herb. Fitz.R.*:
—Kentford, *Hb. Blk. & Rev. F. Tearle*:—Bury, *Sir J. Cullum*:
—Hardwick, *Sk. ms.*:—Ixworth (casual), *Hb. Jeffes*.

2. Whepstead (truly wild), *Mrs. Bevan, C.B.*! :—Hoxne, *Collins*.

3. Beccles?, *R. F. Leach*.

4. In a meadow at Darsham, *Davy*. The figure in Baxter's 'British Phænogamous Botany' was drawn from Mr. Davy's Darsham plant.

5. Walton (introduced):—Hacheston and Bramford, *Trimmer*:—Coddensham, *T.B.*:—Woodbridge, *Hb. Ly*.

Earliest notice 1775. Sir J. Cullum.

*3. *G. silvaticum*, Linn. *Wood Cranesbill.*

Bab. Man. 72. Hook. St. Fl.

2. Whepstead (introduced, but naturalized), *Mrs. Bevan, C.B.*!

Only notice 1887. Mrs. Bevan.

4. *G. sanguineum*, Linn. *Bloody Cranesbill.*

Bab. Man. 72. Hook. St. Fl. 80. H. & S. 17. Top. Bot. Suff.

E. and W.

Showy herbaceous perennial; usually on sandy soil.

July.

1. Newmarket ||, *F. & W. J.*:—Barton ||, *Hb. Blk. and Rk.*:—Bury, *Hb. Sk. & Sir J. Cullum*:—Gazely, *Rev. F. Tearle*:
—Moulton, *Miss Bullender*:—Westley, *H. & S.*:—Risby, *Sk. ms.*:—Between Barton and Pakenham, *Sir C.J.F.B.*:—Ixworth, *Hb. Jeffes*.

4. Dunwich.

5. Near Woodbridge, *Rev. P. Lathbury*:—Bergholt, *H. & S.*

Earliest record 1773. Sir J. Cullum.

5. *G. pyrenaicum*, Linn. *G. perenne*, Huds.

Mountain Cranesbill.

Bab. Man. 72. Hook. St. Fl. 80. H. & S. 17. Top. Bot.

Suff. E and W. Galp 57.

Showy herbaceous perennial; tolerably frequent on banks.

June, July.

1. Lit. Livermere and Bury, :—Barton, *Hb. Rk.* :—Pakenham, *Hbb. Blk. & Cas.* :—Wicken, *Hb. Dun.* :—Clopton, *Mrs. Parker* :—Drinkstone, *F.* :—Tostock, *Mrs. Terry* :—Cavenham, *C.B.* :—Tuddenham, *W.J.* :—Timworth, *Norgate* :—Westley, *Sk. ms.*

2. Stoke :—Hitcham, *Prof. Hens* :—Hadleigh, *Hb. Mg.* :—Kersey, *Gray* :—Long Melford, *J.F.W.*

3. Halesworth :—Bungay, *Stock* :—Beccles, *F. Turner* :—Oulton, *McAub.* :—St. Margaret's (E.A.H.), *Galp.* :—Southwold, *J.H.G.*

4. Oakley, *Collins* :—Westleton || :—Gt. Glemham, *E.N.B. & T.W.G.* :—Saxmundham, *H. & S.*

5. Claydon to Needham Market :—Felixstowe, *C.B.* :—Campsey Ash ; Burgh and Woodbridge, *Moor* :—Grundisburgh, *T.H.* :—Coddensham and Hemingstone, *T.B.* :—Ashbocking, *F.C.S.* :—Baylham, *F.* :—Cosford, *H. & S.* :—Ipswich, *Miller*.

Earliest notice 1805. F. Turner.

6. *G. molle*, Linn.

Soft Cranesbill.

Bab. Man. 72. Hook. St. Fl. 81. H. & S. 17. Hist. Fram.
Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. & W. Galp. 57.

Annual ; widely distributed ; more frequent on light soil. April to August.

Common in all the districts.

Earliest record 1773. Sir J. Cullum.

7. *G. rotundifolium*, Linn. *Round-leaved Cranesbill.*

Bab. Man. 72. Hook. St. Fl. 81. H. & S. 18. Top. Bot. Suff.
E. Hist. Wher.

Biennial ; on old walls and by way-sides ; rare.

June, July.

1. Hardwick, *Sir J. Cullum* :—Newmarket, *E.N.B.*

4. Westleton, *T.W.G.* :—Oakley, *Collins*.

5. Claydon || :—Stoke Hill, Ipswich, *Hb. Sk.* :—Gt. & Lit. Bealings, *Moor* :—Sutton, near Woodbridge ; banks of Deben and Alderton, *Holmes* :—Wherstead, *Haward* :—Bramford Lane, Ipswich, *I.S. Soc.*

Earliest record 1773. Sir J. Cullum.

8. *G. pusillum*, Linn.

Small-flowered Cranesbill.

Bab. Man. 73. Hook. St. Fl. 81. H. & S. 17. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. and W. Galp. 58.

Annual; on banks and waste places, especially on light soil. June to September.

1. Honington ||; Fakenham; Hinderclay; Thurston; Brandon; West Stow; Flempton; Barton Mills; Mildenhall and Thetford:—Barton, *Hb. Blk.*:—Bury, *Hb. Sk.*:—Euston, *Hb. FitzR.*:—Pakenham, *Hb. Cas.*:—Stowlangtoft, *Hb. Rk.*:—Tuddenham, *Hb. Wils.*:—Livermere, *Hb. Ly.*

2. Clare; Wixoe and Long Melford:—Hitcham, *Hb. Hens.*:—Stoke and Nayland, *Gray.*

3. Gorleston; Mettingham; Kessingland; Beccles:—St. Margaret's, *Galp.*:—Bradwell, *J. Priest in Hb. Geld.*

4. Redgrave:—Gt. Glemham, *E.N.B.*:—Mendham, *Galp.*

5. Claydon and Needham Market, &c.:—Ashbocking, *F.C.S.*:—Hemingstone, *T.B.*:—Grundisburgh, *T.H.*:—Bawdsey, *W.L.N.*:—Wherstead, *Haward.*

Earliest notice 1773. Sir J. Cullum.

9. *G. dissectum*, *Linn.* *Dove's-foot.*
Cut-leaved Cranesbill.

Bab. Man. 73. Hook. St. Fl. 82. H. & S. 18. Hist. Fram.
Hist. Wher. Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 58.

Annual; very frequent in waste places. June to Aug.
Common in all the districts.

Earliest notice 1773. Sir J. Cullum.

10. *G. columbinum*, *Linn.* *Dove's-foot Cranesbill.*

Bab. Man. 73. Hook. St. Fl. 81. H. & S. 18. Top. Bot.
Suff. E. ? and W. Hist. Wher. Galp. 58

Rare annual; on chalky or gravelly soils.

1. Between Elmswell and Tostock, *J. Razor.*

2. Long Melford:—Haverhill, *Hb. F.*

3. Belton ||:—Bungay, *H. & S.*

4. Mendham, *Galp.*

5. Near Needham Market ||:—Creting Hills, and lane between Creting and Needham, *Hb. Jeffes*:—Wherstead, *Haward.*

Earliest record 1781. Sir J. Cullum.

11. *G. lucidum*, *Linn.* *Shining Cranesbill.*

Bab. Man. 73. Hook. St. Fl. 82. H. & S. 17. Top. Bot.
Suff. E. and W. Galp. 58.

Annual ; on walls and hedge-banks, preferring a chalky soil. May to August.

1. Barton || ; Ixworth ; Stowlangtoft ; Troston Hall :—Pakenham, *Hb. Cas.* :—Fornham All Sts., *W.J.* :—Bury, *Ms. Davy.*

2. Stoke-by-Nayland || and Clare :—Long Melford, *C.B.* :—Nayland, *Gray* :—Hitcham, *Prof. Hens.* :—Lavenham, *W.J.*

3. St. Margaret's, Ilketshall (E.A.H.), *Galp.*

4. Oakley, *Collins.*

5. Needham Market :—Creting, *T.B.* :—Coddensham, *F. Fox* :—Barham, *E.N.B.* :—Gt. Bealings, *Moor* :—Berg-holt, *H. & S.* :—Tattingstone, *Haward* :—Hadleigh Road, Ipswich, *I.S. Soc.*

Earliest record 1773. Sir J. Cullum.

12. *G. robertianum*, Linn.

Herb Robert.

Bab. Man. 73. Hook. St. Fl. 82. H. & S. 17. Hist. Fram.
Hist. Yarm. Hist. Wher. Top Bot. Suff. E. and W. Galp. 58.

Annual ; very frequent on hedge-banks. May to Sep.
Common in all the districts.

Var. *b.* *G. purpureum*, Forst.

Bab. Man. 74. Hook. St. Fl. 82.

5. Felixstowe || :—Aldeburgh, *F. K. Eagle.*

Earliest record 1773. Sir J. Cullum.

Erodium, L'Herit.

1. *E. cicutarium*, Sm.

Common Storksbill.

Bab. Man. 74. Hook. St. Fl. 83. Hist. Fram. Hist. Yarm.
Hist. Bury. Hist. Wher. Galp 58. Top. Bot. Suff. E. and W.

Annual ; frequent in sandy soils. June to September.

Frequent in all the districts, specially the common form,
E. triviale, Jord.

Var. *a.* *E. pimpinellifolium*, Cav.

Bab. Man. 74. Hook. St. Fl. 83.

1. 'Tuesday, Oct. 2nd, 1771. A variety of the Geranium (*Erodium*) *cutarium* with two of the petals spotted at their base. The Ds. of Portland has several times desired me to send her some of the seeds of this plant, which she once observed in Suff. herself. It grows plentifully on N. of Bury, among turnips and on barley stubbles.' Sir J. Cullum.

3. Gorleston and Kessingland. 5. Felixstowe.

E. Chærophyllum, Cav.

Hook. St. Fl. 83.

1. Brandon ||. 5. Felixstowe.

Earliest notice 1771. Sir J. Cullum.

- *2. *E. moschatum*. *Musk Storksbill*.

Bab. Man. 74. Hook. St. Fl. 83.

Annual plant; in waste places and borders of fields;
rare. June and July.

2. Sternfield, close to a barn; probably introduced,

E.N.B.

3. Bradwell Common, *D. Turner*:—Southwold, certainly wild, *Holmes*.

First record 1805. Dawson Turner.

- [3. *E. maritimum*, *L'Herit*. *Sea-side Storksbill*.

Bab. Man. 74. Hook. St. Fl. 83.

Herbaceous perennial; on sandy sea-coast; rare.

May to September.

- [1. Honington ||; apparently established in the light soil; accidentally introduced.]

Earliest notice 1876.]

BALSAMINACEÆ.

Impatiens, *Linn*.

- *1. *I. parviflora*, *DC*. *Small-flowered Balsam*.

Bab. Man. 75. Hook. St. Fl. 85.

An alien annual, naturalized in England; waste places.

July to September.

1. Bury; established in Barrett's Nursery and in the Botanic Gardens.

5. Stutton ||.

Earliest notice 1876. Hind.

OXALIDACEÆ.

Oxalis, *Linn*.

1. *O. Acetosella*, *Linn*. *Wood Sorrel*

Bab. Man. 75. Hook. St. Fl. 84. H. & S. 18. Hist. Fram.
Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 58.

Herbaceous perennial, with toothed rhizome; in woods; not common. May.

1. Hawstead, *Sir J. Cullum* :—Haughley, *Hb. Rk.* :—Pakenham, *Hb. Cas.* :—Woolpit, *F.* :—Rushbrooke, *H. & S.* :—near Felsham Wood, *Sk. ms.* :—Hardwick, *Hb. Wils.*

2. Wiston ||; Nayland and Polstead :—Trundley Wood, Gt. Thurlow, *F.* :—Bull's Wood, Cockfield, *W. J.* :—Hit-cham, *Hb. Hens.* :—Sudbury, *Fulcher* :—Hadleigh, *F. Spalding*.

3. Mettingham :—Lound (now lost), *D. Turner* :—Lowestoft, *H. & S.* :—Benacre, *F. Spalding* :—Oulton, *McAub.*

4. Burgate Wood :—Gt. Glemham, *E.N.B.* :—Mendham, *H.B.C.* :—Hoxne, *Collins*.

5. Barking, *T.B.* :—Gt. Bealings, *Moor* :—Woolverstone, *H.M.S.* :—Sutton, *F. Spalding* :—Bentley, *Miller* :—Dodnash Wood, *I.S. Soc.* :—Woodbridge, *Hb. Ly.*

Earliest notice 1773. *Sir J. Cullum*.

†2. *O. corniculata*, *Linn.* *Horned Wood Sorrel.*

Bab. Man. 76. Hook. St. Fl. 84.

Small annual; a stray in gardens and waste ground.

June to September.

1. Honington; result of former cultivation.

4. Saxmundham, *F. Fox*; either a stray or introduced.

Earliest notice 1870? *F. Fox*.

*3. *O. stricta*, *Linn.* *Strict Wood Sorrel.*

Bab. Man. 76. Hook. St. Fl. 84.

Small herbaceous perennial; a garden weed and stray.

July, August.

1. Honington ||; originally introduced, and has become a garden weed.

Earliest notice 1875. *Hind*.

LINACEÆ.

Linum, *Linn.*

1. *L. angustifolium*, *Huds.* *Narrow-leaved Flax.*

Bab. Man. 76. Hook. St. Fl. 78. H. & S. 16. Top. Bot. Suff. E.

Perennial herb ; on hedge-banks ; rare. July.

3. Fields, Gunton ; Lowestoft, *Sir J. E. Smith.*

4. Darsham, *Ms. Davy. Sir J. E. Smith.* (The figure in Eng. Boty. was taken from a plant sent from Darsham by Mr. Davy, *ENB.*)

Earliest record 1775. Sir J. Cullum. Supposed to be extinct in Suffolk.

[*L. usitatissimum*, *Linn.* *Flax of Commerce.*

Bab. Man. 76. Hook. St. Fl. 78. H. & S. 16. Hist. Wher.

Galp. 57.

Annual plant, extensively cultivated, and yielding occasional strays. July.

1. Haughley || ; Honington and Higham :—Barton, *Hb. Blk.* :—Ickworth, *W. J.* :—Stowlangtoft, *Hb. Ly.*

2. Cockfield, *W. J.* :—Hitcham, *Prof. Hens.* :—Depden, *Moor.*

3. Lowestoft, *Dr. Trimen & Hb. Sk.* :—Oulton, *McAub.*

4. Fressingfield, now extinct, *Galp.*

5. Gt. Bealings, *Moor* :—Wherstead, *Haward.*

First notice 1859. Prof. Henslow.]

2. *L. perenne*, *Linn.* *Perennial Flax.*

Bab. Man. 77. Hook. St. Fl. 78. H. & S. 16. Hist. Yarm.

Hist. Bury. Top. Bot. Suff. W.

Perennial herb ; borders of fields ; rare. June, July.

1. Ixworth, *Ms. Davy & Hb. Rk.*, flore albo. *Dowell in Hb. Salm.* :—Bury, *Hb. Sk.* :—Stowlangtoft, *Hb. Dun.* :—Pakenham, *Hb. Cas.* :—Bardwell, *Sk. ms.* —near the windmill on the hill near the Northgate, Bury, *Sir. J. Cullum.*

Earliest notice 1773. Sir J. Cullum.

3. *L. catharticum*, *Linn.* *Purging Flax.*

Bab. Man. 77. Hook. St. Fl. 78. H. & S. 16. Hist. Yarm.

Top. Bot. Suff. E. and W. Galp. 57.

Annual weed ; very common on grassy heaths and pastures. May to August.

In all the districts.

First notice 1784. Sir J. Cullum.

Radiola, *Gmel.*

1. *R. Millegrana*, *Sm.* *R. linoides*, *Gmel.*

Flix-seed, Allseed.

Bab. Man. 77. Hook. St. Fl. 79. H. & S. 16. Hist. Yarm.
Hist. Bury. Top. Bot. Suff. E. and W.

Tiny annual; in damp spots, usually where water flows gently; somewhat rare. July, August.

1. Culford and Timworth, *Sir T. G. Cullum*:—Tuddenham, *Hb. Sk.*:—Cavenham, *Sk. ms.*:—near the cross-roads opposite to Barton Mills, *Sir C.J.F.B.*

3. Belton, *Paget*:—Somerleyton, *Hb. Sk.*:—Herringfleet and Somerleyton, *Trimmer*:—Lowestoft, *Hb. Sk.* Sp. in possession of *E.N.B.*

4. Wortham, *C. J. Ashfield*:—Westleton Heath, *Ms. Davy*.

First record 1774. Sir J. Cullum.

CALYCIFLORÆ.

CELASTRACEÆ.

Euonymus, Linn.

1. *E. europæus*, Linn. *Spindle Tree.* *Prickwood.*

Bab. Man. 77. Hook. St. Fl. 87. H. & S. 19. Hist. Fram.
Hist. Wher. Top. Bot. Suff. E. and W. Galp. 58.

Tall shrub; tolerably frequent in woods and hedges.

May to July.

1. Fakenham||; Ampton; Honington; Ixworth Thorpe; Troston; Livermere; Lakenkeath and Wetherden:—Felsham Wood, *C.B.*:—Pakenham Wood, *Hb. Cas.*:—Barton, *Sir C.J.F.B.*:—Woolpit, *F.*:—Bury; The Hyde, Westley, *H. & S.*:—Whepstead; lane near Saxham Gate, *Sk. ms.*:—Newton, *Hb. Wils.*

2. Polstead; Stoke; Hartest and Clare:—Cockfield, *C.B.*:—Hitcham, *Hb. Hens*:—Bures and Nayland, *Gray*:—Acton and Long Melford, *J.F.W.*:—Thurlow, *Hb. F.*:—Hadleigh, *F. Spalding*:—Rede, *Miss Turner*.

3. Bungay, *H. & S.*:—Fritton:—Oulton, *McAub.*:—Flixton, *Galp.*

4. Botesdale; Darsham; Dunwich:—Wortham, *Ashfield*:—Huntingfield, *Holland*:—Gt. Glemham, *E.N.B.*:—Snape, *Hele*:—Westleton, *F. Spalding*.

5. Shrubland and Stutton:—Needham Market, *E. Clowes*:—Gt. Bealings, *Moor*:—Grundisburgh, *T.H.*:—Melton, *F. Spalding*:—Wherstead, *Haward*:—Ipswich, *Miller*.
Earliest notice 1773. Sir J. Cullum.

RHAMNACEÆ.

Rhamnus, *Linn.*

1. *R. catharticus*, *Linn.* *Purging Buckthorn.*
Bab. Man. 78. Hook. St. Fl. 88. H. & S. 19. Hist. Fram.
Hist. Yarm. Hist. Bury. Top. Bot. Suff. E. and W. Galp. 59.
Deciduous shrub; in hedges and thickets; not infrequent.

May to July.

1. Sapiston ||; Fakenham Wood; Market Weston; Honington; Bardwell; Ixworth Thorpe; Troston and Mildenhall:—Stowlangtoft, *Hb. Rk.*:—Barton, *Sir C.J.F.B.*:—Rushbrooke, *H. & S.*:—Livermere, *Sk. ms.*:—Woolpit and Nowton, *Sir T. G. Cullum*:—Santon Downham, *Norgate*.

2. Long Melford; Polstead; Stoke and Wiston:—Hitcham, *Hb. Hens.*:—Haverhill, *Hb. F.*:—Lavenham, *Rev. J. M. Croker*:—Cockfield and Chevington, *Sk. ms.*

3. Belton 1808, *Borrer*:—Bungay, *Stock*:—St. Margaret's, *Holmes*:—South Elmham Minster (*E.A.H.*), *Galp.*

4. Botesdale:—Framlingham, *Crabbe*:—Huntingfield, *Holland*:—Hoxne, *Jas. Turner and Collins*.

5. Shrubland:—Coddenham, *F. Fox*:—Offton, *H. & S.*
Earliest notice 1773. Sir J. Cullum.

2. *R. Frangula*, *Linn.* *Black Alder.*
Bab. Man. 78. Hook. St. Fl. 88. H. & S. 19. Hist. Fram?
Hist. Bury. Top. Bot. Suff. E. and W. Galp. 59.

Deciduous shrub, in hedges and thickets; comparatively rare.
May, June.

1. Market Weston ||; Pakenham Wood || and Mildenhall:—Tuddenham, *Hb. Wils.*:—Woolpit Wood, *Sir T. G. Cullum*.

2. Hitcham, *Hb. Hens.*:—ThurLOW, *F.*

3. Bungay, *Stock*:—In Lord Stradbroke's Woods, *Henham, Ms. Davy*.

4. Framlingham?, *Crabbe*.

5. Gt. Bealings, *Moor*:—Otley Wood, *E.N.B.*

Earliest notice 1804. Sir T. G. Cullum.

LEGUMINOSÆ.

Ulex, *Linn.*1. *U. europæus*, *Linn.* *Common Furze, Gorse, Whin.*

Bab. Man. 81. Hook. St. Fl. 92. H. & S. 19. Hist. Yarm.
 Hist. Wher. Top. Bot. Suff. E. and W. Galp. 59.

Prickly evergreen shrub ; very common on heaths, commons, and road-sides. February to July.

In all the districts. An interesting form occurs on Elveden Heath ||, with shorter and weaker spines, thickly clothed with long whitish hairs, the calyces somewhat tomentose without black hairs.

Earliest notice 1773. Sir J. Cullum.

2. *U. nanus*, *Forst.* *Dwarf Furze or Gorse.*

Bab. Man. 81. Hook. St. Fl. 92. H. & S. 19. Galp. 127.
 Top. Bot. Suff. E. and W.

Small evergreen shrub ; on commons and heaths ; not frequent. August, September.

1. Tuddenham, *Rev. F. Tearle* :—Culford Heath, *G.C. Druce, Rec. Club*, 1883.

3. Kessingland : Easton Bavent and Covehithe || :—Southwold, *Hb. Rk.* :—Herringfleet, *Hb. Sk.* :—Fritton, *Sk. ms.* :—Bungay, *Galp.* :—Wrentham, *M.L.H.*

4. Dunwich, *E.N.B.* :—Mendham Heath, *Moor* :—Walberswick Heath :—Stuston, *Galp.*

5. Aldeburgh :—Tunstall Heath, *E.N.B.* :—Foxhall Heath, *Miller*.

Earliest notice 1860. Henslow and Skepper.

3. *U. Gallii*, *Planch.* *French Furze.*

Bab. Man. 81. Hook. St. Fl. 92.

Small evergreen shrub ; on commons and way-sides ; rare. August to November.

3. Hopton || ; Belton ; Gorleston and Lound ; Easton Bavent and Southwold.

4. Walberswick and Sizewell Heaths.

5. Felixstowe, *W. H. Purchas*.

First notice 1861. Rev. W. H. Purchas.

Genista, *Linn.*1. *G. pilosa*, *Linn.**Hairy Broom.*

Bab. Man. 82. Hook. St. Fl. 91. H. & S. 20. Hist. Bury.

Top. Bot. Suff. W.

Small shrub ; on sandy heaths ; rare. May.

1. 'Discovered by Sir Jno. Cullum and Mr. Dickson amongst the heath about Culford and Lackford,' *Dill. Ray in Hort. Ox.* :—'Heath West of Icklingham Church, Sir J. Cullum, 1771,' *Dill. Ray in Hort. Ox.* :—'beyond Fir plantation, Risby towards Cavenham Severals,' *Sk. ms.* :—Livermere Heath, *Hb. Cas.*, also *Rev. R. G. Leathes* in *Hb. Rk.* :—Windmill, West Stow, *Hb. Blk.* :—Tuddenham Heath, *Sir T. G. Cullum*, & *E.S.K.*

First notice 1771. Sir J. Cullum. Latest notice 1866.

2. *G. tinctoria*, *Linn.**Greenweed. Dyer's Weed.*

Bab. Man. 82. Hook. St. Fl. 91. H. & S. 20. Hist. Yarm.

Top. Bot. Suff. E. and W. Galp. 59.

Small shrub ; in pastures and by road-sides ; not common. July to September.

1. Thurston || :—Felsham Wood, *C.B.* :—Barton, *Hb. Blk.* :—Ixworth, *Hb. Rk.* :—Pakenham Wood, *Hb. Cas.* :—Hardwick, *Hb. Sk.* :—Rougham, *Sk. ms.* :—Elmswell, *Hb. Jeffes* :—Hepworth, *Hb. Salm.*

2. Cockfield, *C.B.* :—Lit. Thurlow, *F.*3. Bradwell, *Wigg* :—Bungay, *H. & S.*

4. Botesdale :—Peasenhall, *Holland* :—Gt. Glemham, *E.N.B.* :—Badingham, *T.W.G.* :—Weybread, *H.B.C.* :—Bedfield, *Hb. Peck* :—Syleham, *Collins.*

5. Hemingstone, *T.B.* :—Ashbocking, *F.C.S.* :—Hintlesham, *Miller.*

Earliest notice 1773. Sir J. Cullum.

3. *G. anglica*, *Linn.**Petty, or Needle Whin.*

Bab. Man. 82. Hook. St. Fl. 91. H. & S. 20. Hist. Yarm.

Top. Bot. Suff. E. and W. Galp. 59.

Small thorny shrub ; on wet heaths and fens ; not infrequent. May, June.

1. Thelnetham || ; Hinderclay and Brandon :—Troston, *Hb. Cas.* :—West Stow, *Hb. Sk. & Blk.* :—Tuddenham, *Rev. F. Tearle & C. Rose* in *Hb. Wils.* :—Lackford, *Hb. Ly.*

3. Bungay, Woodward, Ms. Davy.
4. Redgrave Fen || :—Stuston, Collins.
5. Martlesham Heath, Moor :—Nacton Heath, Dr. Taylor :—Warren House Heath, Ipswich, Miller :—Foxhall Heath, I.S. Soc.

Earliest notice 1773. Sir J. Cullum.

Sarothamnus, Wimm.

1. *S scoparius*, Koch. *Cytisus Scoparius*, Link.
Common Broom.

Bab. Man. 82. Hook. St. Fl. 92. H. & S. 20. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. and W. Galp. 59.
Shrub ; frequent on heaths and sandy banks.

May, June.

Common in all the districts.

A form of prostrate habit, with hairy leaves, has been kindly sent by Rev. W. H. Sewell from Yaxley ||. Query, can it be *S. prostratus* ?

Earliest record 1773. Sir J. Cullum.

Ononis, Linn.

1. *O. arvensis*, Linn. *O. repens*, Linn. *Creeping*
Rest-harrow.

Bab. Man. 82. Hook. St. Fl. 93. H. & S. 20. Hist. Yarm.
Top. Bot. Suff. E. and W. Hist. Wher. Galp. 59.

Small shrub ; in sandy places. June to September.

Tolerably frequent in all the districts. *O. inermis*, Lange.

Form *O. maritima*. Gren.

3. Lowestoft ||.

5. Felixstowe ; Bawdsey :—Aldeburgh, C.B.

Form *O. horrida*, Lange.

3. Lowestoft :—Flixton, Galp. 5. Bawdsey.

First record 1773. Sir J. Cullum.

2. *O. campestris*, Koch. *O. spinosa*, Linn.
Spinous Rest-harrow.

Bab. Man. 83. Hook. St. Fl. 93. H. & S. 20. Top. Bot.
Suff. E. and W. Galp. 60.

Small shrub ; on road-sides and pastures. June to Sep.

1. Honington ||; Euston; Ixworth; Bardwell and Hinderclay; Barton Mills:—Walsham, *Herb. Dun.*; Barton, *Hb. Blk.*; Mildenhall, *Sir C.J.F.B.*:—Nowton, *Hb. Wils.*

2. Cockfield and Lawshall, *C.B.*:—Hitcham, *Prof. Hens.*:—Hadleigh, *Hb. Mg.*:—Long Melford, *J.F.W.*:—Lit. Thurlow, *Hb. F.*:—Rede, *Hb. Turn.*

3. Henstead:—Oulton, *McAub.*

4. Mellis and Westleton:—Friston Moor, *Hele.*:—Mendham, *H.B.C.*:—Gt. Glemham, *E.N.B.*

5. Aldeburgh, *Hb. Cas.*:—Claydon, :—Boulge, *Moor*:—Grundisburgh, *T.H.*

First record 1773. Sir J. Cullum.

Medicago, Linn.

*1. *M. sativa*, Linn. *Purple Medick.* *Lucerne.*

Bab. Man. 83. Hook. St. Fl. 95. Hist. Yarm. Galp. 60.

Perennial herb of cultivation, naturalized; frequent.

June, July.

1. Honington ||; Sapiston; Troston; Barnham; Thetford; Culford and Ingham:—Stowlangtoft, *Hb. Rk.*:—Mildenhall, *Sir C.J.F.B.*:—Nowton, *Hb. Wils.*:—Brandon, *Norgate.*

2. Clare:—Bildeston, *Hb. Cas.*:—Hitcham, *Prof. Hens.*

3. Bradwell and Burgh Castle, *Wigg.*:—Oulton, *McAub.*

4. Wortham, *Collins.*:—Weybread, *Galp.*

5. Felixstowe, *H.M.S.*

First notice 1804. Sir T. G. Cullum.

2. *M. silvestris*, Fries. *Wild Medick.*

Bab. Man. 83. Hook. St. Fl. 94. Hist. Bury. Top. Bot. Suff. W.

Herbaceous perennial; on sandy soil. June, July.

1. Between Lackford and Cavenham ||:—Barnham ||, *Gray.*:—Higham and Tuddenham, *W.J.*:—Thetford, *C.C.* *Bab. Phyt. O.S.*, cv. 777:—Mildenhall, *Sir C.J.F.B.*:—between Elveden and Icklingham, *A.B.*:—Stowlangtoft, *Hb. Rk.*:—Saxham:—Bridewell, Bury, *Sir T. G. Cullum.*

First record 1804. Sir T. G. Cullum.

3. *M. falcata*, Linn. *Sickle Medick.*

Bab. Man. 83. Hook. St. Fl. 94. H. & S. 20. Hist. Yarm.

Hist. Bury. Top. Bot. Suff. E. and W.

Perennial herb ; on sandy heaths and pastures ; local.
June, July.

1. Culford Heath || ; Barnham ; Thetford || ; Brandon ; Wangford ; Lakenheath ; Fornham St. Martin ; Honington ; Knettishall :—Barton Mills, *Hb. F.* :—Stowlangtoft, *Hbb. Dun. & Rk.* :—Bury, *Hbb. Blk. & Sk.* :—Mildenhall and Ixworth, *Sir C.J.F.B.* :—Pakenham, *Rickards* :—Thurston, *H. & S.* :—‘Elden in Suffolk with *Artemisia campestris*, &c., *Mr. Dickson*,’ *Dill. Ray.*, *Hort. Ox.* :—Tuddenham and Cavenham, *W.J.* :—Rushbrooke and Hardwick, *Hb. Wils.*

3. Lowestoft, *Sk. ms.*

4. Dunwich, old Church Yard, *Hb. Budd. & Crabbe* :—Stuston, *Collins*.

5. Boulge, *Moor* :—Orford, *Crabbe* :—Sudbourne, *E.N.B.* and *Crabbe*.

Earliest notice circa 1698. Buddle.

4. *M. lupulina*, *Linn.* *Black Medick.* *Nonsuch.*

Bab. Man. 84. *Hook. St. Fl.* 95. *H. & S.* 20. *Hist. Yarm.*

Top. Bot. Suff. E. and W. *Galp.* 60.

Small annual or biennial herb ; very common in fields and waste places. May to August.

In all the districts.

First record 1773. *Sir J. Cullum*.

5. *M. maculata*, *Sibth.* *Spotted Medick.*

Bab. Man. 84. *Hook. St. Fl.* 95. *H. & S.* 20. *Hist. Yarm.*

Hist. Wher. *Top. Bot. Suff. E. and W.* *Galp.* 127.

Annual, preferring light soil ; more frequent near the sea. May to August.

1. Stowlangtoft, *Hbb. Cas. & Rk.* :—Haberden, Bury, *H. & S.*

2. Stoke || and Wiston :—Nayland, *Gray* :—Hitcham, *Prof. Hens.* :—between Lavenham and Brent Eleigh, *W.J.*

3. Southwold :—Bungay, *Stock* :—Lowestoft Denes, *E.N.B.* :—Gorleston, *Paget in Hb. Geld.*

4. Westleton || ; Walberswick and Dunwich :—Saxmundham, *E.N.B.*

5. Aldeburgh, *Hb. Blk.* :—Felixstowe ; Walton and Stutton ; Orford :—Ipswich and Raydon, *E.N.B.* :—Grundisburgh, *T.H.* :—Wherstead, *Haward*.

Earliest notice 1835. *D. Stock*.

6. *M. minima*, Lam.

Least Medick.

Bab. Man. 84. Hook. St. Fl. 93. H. & S. 21. Hist. Bury.
Top. Bot. Suff. E. and W.

Small annual; in chalky and sandy fields; not common.
May.

1. Elveden ||; Eriswell; Brandon; Lackford; Thetford and West Stow:—Risby Heath, *C.B.*:—Barton, *Hb. Blk.*:—Fakenham, *Hb. Rk.*:—Mildenhall, *Sir C.J.F.B.*:—Icklingham, *Hb. Sk.*:—near Bury and Wordwell Heath, *Sir T. G. Cullum*:—Newmarket, *Don. ii, 171, Eng. Bot. Supp.*:—Cavenham, *H. & S.*:—Wangford:—Lakenheath, *A.B.*

3. Lowestoft, *Dr. Trimen*:—Southwold, *Holmes*.

4. Walberswick and Dunwich, *Holmes*.

5. Felixstowe and Landguard Fort:—Bawdsey Ferry, *Prof. Hens. in Hb. Rk.*:—Orford Castle, *E.N.B. & Ray*.

First record 1690. Ray.

7. *M. denticulata*, Willd.

Toothed Medick.

Bab. Man. 84. Hook. St. Fl. 95. H. & S. 20. Top. Bot. Suff. E.

Rare annual; on sandy ground, usually near the sea.

May to August.

2. Stoke-by-Nayland ||, *Gray*.

3. Southwold, *Holmes*.

4. Walberswick, *Holmes*.

5. Orford ||, *Holmes & Hb. Budd.*:—Aldeburgh, *W. King, Sk. ms.*:—Felixstowe, *E. Sk.*:—Ipswich, *Ips. Fl.*:—Orford Beach, *E.N.B.*

Earliest record 1690. Ray.

Melilotus, Linn.1. *M. officinalis*, Willd.*M. altissima*, Thuill.

Common Melilot.

Bab. Man. 84. Hook. St. Fl. 96. H. & S. 21. Hist. Fram.
Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 60.

Tall annual or biennial; on hedge banks; frequent.

June to August.

1. Barnham ||; Livermere; Honington; Brandon; Haughley; Troston and Higham:—Bury, *Hb. Sk.*:—Walsham, *Hb. Dun.*:—ThurLOW, *Hb. F.*:—Barton, *Hb. Blk.*:—Pakenham, *Hb. Cas.*:—Stowlangtoft, *Hb. Rk.*:—Mildenhall, *Sir C.J.F.B.*:—Thetford, *Gray*:—Cavenham, *Rev. F. Tearle*:—Elmswell and Thurston, *H. & S.*

2. Stoke-by-Clare; Cockfield and Lawshall, *C.B.*:—Hit-
cham, *Hb. Hens.*:—Melford and Clare, *J.F.W.*:—between
Sudbury and Clare, *Ger.*:—Rede, *Hb. Turn.*

3. Bungay:—Carlton Colville, *Dr. Trimen*:—Oulton,
McAub.:—St. Margaret's; Flixton, *Galp.*

4. Gt. Glemham, *E.N.B.*:—Huntingfield, *Holland*:—
Saxmundham, *H. & S.*:—Framlingham, *Crabbe*:—Mendham;
Weybread, *Galp.*

5. Aldeburgh, *Hele*:—Gt. Bealings, *Moor*:—Grundis-
burgh, *T.H.*:—Ashbocking, *F.C.S.*:—Needham Market, *E.*
Clowes:—Felixstowe, *Miller.*

First record 1597. Gerarde.

2. *M. arvensis*, Willd. *M. officinalis*, Desr.
Field Melilot.

Bab. Man. 85. Hook. St. Fl. 96.

Biennial herb; in waste places; somewhat rare.

June to August.

1. Fakenham ||; Bury; Ixworth Thorpe; Barnham;
Barton Mills; Mildenhall; Brandon and Higham:—Thet-
ford, *C.C. Bab.*:—Eriswell and Lakenheath, *A.B.*:—Caven-
ham ||, *W.J.*

2. Sudbury, *J.S.H.*

4. Botesdale:—Thrandeston and Stuston, *Collins.*

5. Claydon; Ipswich.

Earliest notice 1848. Newbould.

3. *M. alba*, Lam. *M. leucantha*, Koch. *White Melilot.*

Bab. Man. 85. Hook. St. Fl. 96. H. & S. 21. Top. Bot. Suff. W.

Biennial herb; rare; usually near the sea. July, Aug.

1. Mildenhall, *H. & S.*

2. Cockfield, among Lucerne, *W.J.*

(Haddiscoe Station of *H. & S.*, and of *Hb. Sk.*, is in Norfolk.)

Earliest notice 1860. Henslow and Skepper.

[4. *M. parviflora*, Desf. *Small-flowered Melilot.*

Bab. Man 85. Hook. St. Fl. App. 520.

A casual annual; generally in waste places; not frequent.

July, August.

3. On a bare patch near Breydon Water ||, Oct., 1882.
Hind.]

Trifolium, *Linn.*

1. *T. pratense*, *Linn.* *T. sativum.* *Purple Clover.*

Bab. Man. 85. Hook. St. Fl. 98. H. & S. 21. Hist. Fram.
Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 60.

Perennial agricultural herb; frequent in pastures.

May to September.

In all the districts.

b. T. parviflorum, Bab.

Bab. Man. 85. Hook. St. Fl. 98.

2. Stoke-by-Nayland ||.

Earliest record 1773. Sir J. Cullum.

2. *T. medium*, *Linn.* *Zigzag Clover.*

Bab. Man. 85. Hook. St. Fl. 98. H. & S. 21. Hist. Fram.
Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 60.

Perennial herb; not frequent; on banks and in woods.

May to September.

1. Hopton || and Sapiston :—Stowlangtoft, *Hb. Rk.* :—
Bury, *H. & S.* :—Felsham, *Hb. Sk.* :—Gedding, *Sk. ms.* :—
Bradfield, *Hb. Ly.*

2. Cockfield, *W.J.* :—Thurlow, *Hb. F.* :—Hitcham,
Hb. Hens.

3. Bungay, *H. & S.* :—Barsham, *McAub.* :—Flixton ;
St. Margaret's, (E.A.H), *Galp.*

4. Westleton :—Gt. Glemham and Easton, *Crabbe* :—
Brockford, *Hb. Peck* :—Benhall, *F.N.B.* :—Weybread, *Galp.*

5. Wherstead, *Haward.*

Earliest record 1804. Sir T. G. Cullum.

3. *T. ochroleucum*, *Linn.* *Sulphur Clover.*

Bab. Man. 86. Hook. St. Fl. 98. H. & S. 21. Hist. Fram.
Top. Bot. Suff. E. and W. Galp. 60.

Perennial herb; frequent in Suffolk, but scarcely known
outside the Eastern Counties. June, July.

Well distributed in all the districts, The following are
the earliest notices we have of the plant. 'On chalk by gravel
in Bury,' *Sir J. Cullum*, 1775 :—'Between Bury and Saxham
on the hard and dry road. It appears also in some pastures
in that neighbourhood, also in a grove near Hardwick House,
two miles from Bury,' *Sir Jno. Cullum ! Dill. Ray., Hort. Ox.*

Earliest notice 1775. Sir J. Cullum.

- [4. *T. incarnatum*, *Linn.* *Crimson Clover.*
 Bab. Man. 86. Hook. St. Fl. 97.

Annual agricultural herb; only a stray from cultivation in Suffolk; tolerably frequent. June, July.

1. Brandon; Thurston and Fornham St. Martin:—Bury, *Hb. Sk.*

2. Chilton and Stoke-by-Nayland:—Nayland, *Gray.*

3. Oulton, *McAub.* 4. Burgate.

5. Chalkpit, Claydon.

Earliest notice 1862. E. Skepper.]

- [*T. stellatum*, *Linn.* *Stellate Clover.*
 Bab. Man. 86. Hook. St. Fl. 530.

Annual; a sea-side casual. June, July.

3. 'Between Southwold and pier. Often eaten off by sheep before coming into blossom,' *Holmes.* We enter this plant with some distrust, though we own the authority to be most respectable.

Earliest notice 1840? Rev. E. A. Holmes.]

6. *T. arvense*, *Linn.* *Hare's-foot Trefoil.*
 Bab. Man. 86. Hook. St. Fl. 97. H. & S. 21. Hist. Fram.
 Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 160.

Annual plant; common on sandy heaths and land.

July to September.

Frequent in all the districts, except No. 2, where it is less frequent.

Earliest record 1773. Sir J. Cullum.

7. *T. striatum*, *Linn.* *Striate Clover.*
 Bab. Man. 86. Hook. St. Fl. 99. H. & S. 21. Galp. 60.
 Top. Bot. Suff. E. and W.

Prostrate annual; not unfrequent on sandy soils.

June, July.

1. Bury; Fornham St. Martin; Fakenham; Honington ||; Sapiston; Troston and Timworth:—Stowlangtoft, *Hbb. Cas. & Rk.*:—Coney Weston, *E.F.L.*:—Woolpit, *F.*:—Barton; Rougham; West Stow and Santon Downham, *Sk. ms.*

2. Hitcham, *H. & S.*

3. Lowestoft, *Hbb. Blk. & F.*:—Bungay, *H. & S.*

4. Dunwich ||:—Gt. Glemham, *E.N.B.*

5. Blaxhall, *E.N.B.*:—Felixstowe, *W. H. Purchas*:—Aldeburgh, *Ms. Davy.*

First record 1774. Sir J. Cullum.

8. *T. scabrum*, Linn.*Rough Clover.*

Bab. Man. 87. Hook. St. Fl. 99. H. & S. 21. Hist. Bury.
 Top. Bot. Suff. E. and W.

Small annual; not common; on sandy soils.

May to July.

1. Elveden ||; Eriswell and Euston:—West Stow and Mildenhall, *Sir C.J.F.B.*:—Cavenham and Risby, *W.J.*:—Coney Weston, *F.F.L.*:—Bury, *Sir T. G. Cullum*:—Rougham, *Sk. ms.*:—Newmarket Heath, *Ray*.

3. Lowestoft, *Hb. F.*:—Bungay, *Woodward*:—Gorleston, *D. Turner*.

4. Dunwich ||:—Walberswick, *Holmes*.

5. Aldeburgh and Blaxhall, *E.N.B.*:—Felixstowe, *W.J.*:—Bawdsey, *W.L.N.*:—Slaughden, *Crabbe*:—Woodbridge, *Sir J. Cullum*:—Orford Castle.

Earliest notice 1696. *Ray*.

[*T. squarrosum*, Linn.*Squarrose Clover.*

1. Hengrave, *Sir T. Gage*, 1813, in *Hb. Sk.*

2. Lawshall, *Sir. T. Gage*, fide, *E. Sk.*

Earliest notice 1813. *Sir T. Gage.*]

10. *T. maritimum*, Huds.*Sea-side Clover.*

Bab. Man. 87. Hook. St. Fl. 98. H. & S. 21. Hist. Yarm.
 Top. Bot. Suff. E.?

Annual; native of salt-marshes; very rare. June, July.

3. Possibly at one time a native of this district. Salt-marshes near Yarmouth, (Suffolk) *Wigg*. The specimen in *Hb. Sk.* is from Yarmouth.

5. Shingle Street, Hollesley, *Holmes*.

Earliest notice 1804. *Wigg*.

11. *T. subterraneum*, Linn.*Burrowing Clover.*

Bab. Man. 87. Hook. St. Fl. 97. H. & S. 22. Hist. Fram.
 Hist. Wher. Hist. Bury. Top. Bot. Suff. E and W

Annual; on sandy pastures; neat and compact in flower, straggling and prostrate in fruit, ultimately burying its seed-vessels; not very frequent.

May, June.

1. Honington ||; Sapiston ||; Woolpit Warren, *J. Raser*:—Bury, *Hb. Sk.*:—Stowlangtoft, *Hb. Cas.*:—Rougham, *Blackett*:—Fornham and other heaths, *Sir T. G. Cullum*.

3. Lowestoft, *Hb. Blk.*:—Bungay, *Stock*:—Southwold, *Holmes*:—St. Margaret's (E.A.H.), *Galp*.

4. Dunwich :—Framlingham, *Crabbe* :—Gt. and Lit. Glemham, *E.N.B.* :—Redgrave Fen, *Collins*.

5. Felixstowe, *Prof. Hens.* :—Barham, *T.B.* :—Wherstead, *Haward* :—Aldeburgh, *C.B. & W.J.*, & *Ms. Davy*.

Earliest notice 1773. Sir J. Cullum.

12. *T. glomeratum*, *Linn.* *Clustered Clover.*

Bab. Man. 88. Hook. St. Fl. 99. H. & S. 22. Galp. 61.

Top. Bot. Suff. E.

Small annual ; usually on the gravelly sea-coast ; rarely inland. June.

1. Coney Weston ||, *E.F.L.* :—West Stow Heath :—Barnham, *C.B.*

3. Lowestoft ||, *Hb. Blk.* :—Gorleston, *D. Turner* :—Southwold ; Bungay and Homersfield, *Holmes*.

4. Westleton || ; Dunwich and Walberswick :—Middleton, *Davy* :—Sweffling, *Crabbe* :—Friston, *E.N.B.* :—Saxmundham, *Ray* :—Gt. Glemham, *Crabbe*.

5. Orford Castle :—near Ipswich, *Rev. H. Williams in Hb. Geld.* :—Aldeburgh :—Blaxhall and Tunstall Heath, *E.N.B.* :—Felixstowe, *Prof. Hens.* :—Blackheath, *Hb. Sk.* :—Woodbridge, *Sir J. Cullum*.

Earliest record 1690. Ray.

14. *T. suffocatum*, *Linn.* *Throttled Clover.*

Bab. Man. 88. Hook. St. Fl. 99. H. & S. 22. Hist. Bury.

Top. Bot. Suff. E. Galp. 127.

Small plant in the sea-sands ; annual ; rare. June.

3. Lowestoft, *Hb. Sk.* :—Gorleston, *Suckling* :—Southwold ||, *Holmes* :—Bungay, *H. & S.*

4. Dunwich, *Davy* :—between Aldeburgh and Leiston, *Holmes*.

5. Felixstowe || :—Landguard Fort, *C.B.* :—Bawdsey, *W.L.N.* :—Aldeburgh, *Crabbe* :—near Orford high Light-house, *Holmes*.

First record 1800. Sir T. G. Cullum.

15. *T. repens*, *Linn.* *Dutch or White Clover.*

Bab. Man. 88. Hook. St. Fl. 100. H. & S. 22. Hist. Yarm.

Hist. Wher. Top. Bot. Suff. E. and W. Galp. 61.

Perennial herb ; plentiful in pastures and meadows.

May to September.

Well represented in all the districts. Two abnormal

forms in *Hb. Geld.*

First notice 1773. Sir J. Cullum.

*16. *T. hybridum*, Linn.

Alsike Clover.

Bab. Man. 88. Hook. St. Fl. 100.

Naturalized.

July to September.

Var. *T. elegans*, Savi.

Hook. St. Fl. 100.

1. Ixworth Thorpe ||.

2. Lit. Thurlow, *Hb. F.*:—Nayland.

4. Weybread, *H.B.C.*

Earliest notice about 1850. Mrs. French.

17. *T. fragiferum*, Linn.

Strawberry Clover.

Bab. Man. 88, 89. Hook. St. Fl. 100, 101.

Hist. Fram. Hist.

Bury. Top. Bot. Suff. E. and W. Galp. 61.

Perennial; in damp pastures, especially near the sea.

July, August.

1. Honington || to Ixworth; Livermere; Pakenham, *Hb. Cas.*; Stowlangtoft, *Hb. Rk.*; Barton and Mildenhall, *Sir C.J.F.B.*:—Tostock, *Mrs. Terry*:—Horringer; Rushbrooke; Rougham and Haughley, *Sk. ms.*

2. Bildeston:—Cockfield, *C.B.*:—Hitcham, *Hb. Hens.*:—Kersey, *E.F.L.*:—Lit. Thurlow, *Hb. F.*

3. St. Olaves || Gorleston; Belton; Benacre; Worlingham and Bungay:—Carlton Colville, *Dr. Trimen*:—Breydon Water, *Phyt. N.S.* 1862:—Oulton, *McAub.*

4. Redgrave and Peasenhall:—Gt. Glemham, *E.N.B.*:—Thorpe, *Sir C.J.F.B.*:—Wetheringsett, *Hb. Peck*:—Mendham and Weybread, *Galp.*

5. Aldeburgh; Bawdsey; Claydon:—Hemingstone, *T.B.*:—Felixstowe, *E. Sk.*:—Wherstead, *Haward*:—Barking, *Miller.*

First notice 1775. Sir J. Cullum.

[*T. resupinatum*, Linn.

Resupinate Clover.

Bab. Man. 89. Hook. St. Fl. App. 530.

Perennial. A casual, or perhaps a stray.

July.

3. Lowestoft, *Dr. Trimen*, 1859, also *Hb. Sk.*]

18. *T. procumbens*, Linn.

T. agrarium, Huds.

Hop Trefoil.

Bab. Man. 89. Hook. St. Fl. 101. H. & S. 22. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. and W. Galp. 61.

Annual ; very frequent in pastures and on road-sides.

June to August.

Common in all the districts.

Earliest notice 1773. Sir J. Cullum.

19. *T. minus*, Sm. *T. dubium*, Sibth. *Lesser Trefoil.*

Bab. Man. 89. Hook. St. Fl. 101. H. & S. 22. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. and W. Galp. 61.

Small annual ; frequent in dry pastures. June to Aug.

Common in all the districts.

First notice 1773. Sir J. Cullum.

20. *T. filiforme*, Linn. *Slender Trefoil.*

Bab. Man. 89. Hook. St. Fl. 101. Hist. Fram. Hist. Yarm.
H. & S. 22. Top. Bot. Suff. E. and W. Galp. 61.

Small prostrate annual ; usually on light soil.

June, July.

1. Honington || ; Fakenham and Elveden :—Barton,
Hb. Blk. :—Stowlangtoft, *Rk.* :—Bury, *Sk. ms.* :—Kentford,
Rev. F. Tearle :—Thetford Heath, *A.B.* :—Risby Heath, *E. S.*
Marshall :—Rushbrooke, *Hb. Ly.*

2. Lit. Thurlow, *F.*

3. Lowestoft, *Hb. Sk.* :—Southwold, *Holmes* :—Bungay,
H. & S. :—Homersfield, *H.B.C.* :—St. Margaret's (E.A.H.),
Galp.

4. Walberswick :—Framlingham, *Crabbe* :—Snape and
Gt. Glemham, *E.N.B.* :—Wortham Ling, *E. S. Marshall.*

5. Felixstowe :—Wherstead, *Haward.*

Earliest notice 1774. Sir J. Cullum.

Falcatula, *Brot.*

1. *F. ornithopodioides*, Bab. *Trigonella*
ornithopodioides, DC. *T. purpurascens*, Lam. *Fenugreek.*

Bab. Man. 89. Hook. St. Fl. 94. H. & S. 21. Top. Bot. Suff. E.

Small prostrate annual ; gravelly places near the sea ;

rare.

June, July.

3. Lowestoft, *Hb. Sk.* :—Southwold, *Holmes.*

4. Walberswick, *Holmes.*

5. Aldeburgh, *C.B.* :—Felixstowe ||, *Hb. Blk.* :—Bawd-

sey Ferry, *W.L.N.* :—Orford, *F.*

Earliest notice 1805. Rev. G. Crabbè.

Lotus, *Linn.*

1. *L. corniculatus*, *Linn.* *Bird's-foot Trefoil.*

Bab. Man. 90. Hook. St. Fl. 102. H. & S. 22. Hist. Yarm.

Hist. Wher. Top. Bot. Suff. E. and W. Galp. 61.

Small perennial, very common in pastures. June to Aug.
Frequent in all the districts.

Var. *L. tenuis*, W. & K.

Bab. Man. 90. Hook. St. Fl. 103. Hist. Yarm. Top. Bot.

Suff. E.

1. Thelnetham Fen ||.

3. Lowestoft, *Hb. Sk.*, 1860. 4. Dunwich ||.

5. Orford; Bawdsey :—Woodbridge, *H. & S.* :—Bentley, *Miller*.

Earliest notice 1773. Sir J. Cullum.

2. *L. major*, *Scop.* *L. uliginosus*, *Schk.* *L. pilosus*, *Beeke.* *Greater Lotus.*

Bab. Man. 90. Hook. St. Fl. 103. H. & S. 22. Hist. Yarm.

Top. Bot. Suff. E. and W. Hist. Wher. Galp. 61.

Perennial, frequent on the edge of streams and in damp places. July, August.

Common in all the districts.

1860. Henslow and Skepper.

Anthyllis, *Linn.*

1. *A. vulneraria*, *Linn.* *Kidney Vetch, Lady's Fingers.*

Bab. Man. 90, 91. Hook. St. Fl. 102. H. & S. 23. Hist. Bury.

Galp. 61. Top. Bot. Suff. E. and W.

Perennial; on dry or on chalky pastures; frequent in West, rare in East Suffolk. June to August.

1. Elveden, ||; Wangford; Culford Heath; Fakenham; Wordwell and Knettishall :—Thetford Heath, *A.B.* :—Barton *Hb. Blk.* :—Pakenham, *Hb. Cas.* :—Barton Mills; Mildenhall, and by the Newmarket Road, *Sir C.J.F.B.* :—Cavenham, *W.J.* :—Icklingham, *E.N.B.* :—Lackford, *Hb. Ly.* :—Bury, *J. Priest in Hb. Geld.*

2. Cockfield, *C.B.*:—Risby; Barton Mere and Westley, *H. & S.*:—Barrow Bottom; Higham and Lakenheath, *Sk. ms.*

3. Chediston, introduced with seed, *Galp.*

5. Claydon:—Hemingstone, *T.B.*:—Bramford, *Miller*.
Earliest record 1773. Sir J. Cullum.

Astragalus, *Innn.*

1. *A. hypoglottis*, *Linn.* *Purple Milk Vetch.*

Bab. Man. 91. Hook. St. Fl. 104. Hist. Bury. Top. Bot. Suff. W.

Small showy perennial; on chalky or dry heaths and pastures. June, July.

1. Elveden ||: Troston ||; Barnham and Culford Heath:—Risby Heath, *C.B.*:—between Bury and Thetford, *Hb. Blk.*:—near Mildenhall, Newmarket Road and near Herringswell, *Sir C.J.F.B.*:—Newmarket, *Rev. F. Tearle*:—Cavenham; Barrow Bottom; West Stow Heath; Westley; Barton, *Sk. ms.*:—Icklingham and Thetford, *A.B.*:—Lackford, *Hb. Ly.* ‘In and near the large plantation of Scotch firs before you come to Cavenham, chalky and dry,’ *Sir J. Cullum*, Tuesday, June 1st, 1773.:—Tuddenham Heath, *Hb. Wils.*

Earliest notice 1597. Gerarde.

3. *A. glycyphyllos*, *Linn.* *Wild Liquorice.*

Bab. Man. 91. Hook. St. Fl. 104. H. & S. 23. Hist. Bury. Hist. Wher. Top. Bot. Suff. E. and W.

Herbaceous perennial; usually in chalky soil; somewhat rare. June.

1. Barton, *Hb. Blk.*:—Pakenham, *Hb. Cas.*:—Stowlangtoft, *Rk.*:—Barton Mills and Herringswell, *Rev. F. Tearle*:—Fornham St. Martin, *F. Forster, jun.*:—Ixworth, *Sk. ms.*:—Bury, *Sir T. G. Cullum*.

2. Acton sand-pit:—Whatfield, *H. & S.*:—Chilton and Sudbury, *Sk. ms.*:—between Cornard and Sudbury, *Ger.*

5. Shrubland and Needham Market ||:—Coddensham || *T.B.*, *Ms. Dary*, & *Hb. F.*:—Hemingstone, *F. Fox*:—between Claydon and Baylham, *F.*:—Creting, *Hb. Jeffes*:—Wherstead, *Haward*:—Whitton, *Miller*, *F.N.B.*

Earliest notice 1597. Gerarde.

Vicia, Linn.

[*V. monanthos*, Linn. *Ervum monanthos*, Linn.
One-flowered Lentil.

A casual ; native of the South of Europe. June, July..

5. Ipswich Docks ||, on ballast.

June and August, 1885. Hind.]

1. *V. hirsuta*, Koch. *Ervum hirsutum*, DC.
Hairy Tare. Tine Tare.

Bab. Man. 92. Hook. St. Fl. 107. H. & S. 23. Hist. Fram.
 Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 62.

Small straggling annual ; frequent in fields and hedges..

June to August.

In all the districts.

Earliest notice 1773. Sir J. Cullum.

2. *V. tetrasperma*, Manch. *Ervum tetraspermum*, Linn..
Smooth Tare.

Bab. Man. 92. Hook. St. Fl. 107. H. & S. 23. Hist. Fram.
 Hist. Yarm. Tob. Bot. Suff. E. and W. Galp. 62.

Small straggling annual ; in fields and hedges.

June to August..

1. Pakenham, *Hb. Cas.* :—Coney Weston, *E.F.L.* :—
 Honington ? *H & S.*

2. Cockfield, *C.B.* :—Hitcham, *Hb. Sk.* :—Stoke || and
 Wiston :—Thurlow, *Hb. F.*

3. Bungay, *Stock* :—Flixton, *Galp.*

4. Rendham, *E.N.B.* :—Framlingham, *Crabbe* :—
 Weybread, *H.B.C.* :—Wortham, *Collins* :—Mendham Hill,
Galp.

5. Stutton || ; Ipswich :—Grundisburgh, *T.H.* :—Gt.
 Bealings, *Moor* :—Offton, *H. & S.* :—Brantham, *Sk. ms.* :—
 Ramsholt, *Sir J. Cullum*, 1773 :—Creting, *Miss Sheppard* in
Hb. Jeffes :—Banks of Gipping, *I. S. Soc.*

Earliest record 1773. Sir J. Cullum.

3. *V. gracilis*, Lois. *Ervum gracile*, Linn..
Slender Lentil.

Bab. Man. 92. Hook. St. Fl. 107.

Small straggling annual; in fields and thickets; rare.

June to August.

2. Nayland:—Washdall Wood, Thurlow, *Hb. F.*

About 1840. Mrs. French.

6. *V. Cracca*, *Linn.*

Tufted Vetch.

Bab. Man. 93. Hook. St. Fl. 107. H. & S. 23. Hist. Fram.

Hist. Wher. Hist. Yarm. Top. Bot. Suff. E. and W.

Climbing herbaceous perennial, frequent in hedges.

June to August.

Common in all the districts.

Earliest notice 1773. Sir J. Cullum.

7. *V. bithynica*, *Linn.* *Rough-podded Purple Vetch.*

Bab. Man. 93. Hook. St. Fl. 109, 10.

Perennial herb; in bushy places on gravelly soil.

July, August.

Near Beccles, *Crabbe in Ms. Dary.* Probably an error.]

8. *V. sepium*, *Linn.*

Bush Vetch.

Bab. Man. 94. Hook. St. Fl. 108. H. & S. 24. Hist. Fram.

Hist. Wher. Top. Bot. Suff. E. and W. Galp. 62.

Herbaceous perennial, very common in hedges.

June to August.

In all the districts.

First record 1773. Sir J. Cullum.

10. *V. lutea*, *Linn.*

Yellow Vetch.

Bab. Man. 94. Hook. St. Fl. 108. H. & S. 24. Hist. Bury.

Top. Bot. Suff. E.

Perennial herb; on pebbly ground, usually by the sea.

June to August.

1. Among Lucerne at Brandon ||, *W. J. Cross.*

5. Orford light-house ||, *Hele*:—Aldeburgh, *Sir J. E. Smith*:—‘Orford beach, the side next the river, *Mr. Humphrey*,’ *Dill. Ray. Hort. Ox. & E.N.B.*:—‘between Landguard Fort and Felixstowe, *A.B.* 1872:—Whitton Church-yard, *Ms. Dary*:—Felixstowe, *Rev. A. L. Williams.*

Earliest record 1775. Humphrey.

11. *V. sativa*, *Linn.*

Common Vetch.

Bab. Man. 94. Hook. St. Fl. 109. H. & S. 24. Hist. Yarm.

Hist. Wher. Top. Bot. Suff. E. and W. Galp. 62.

Annual, largely cultivated ; fields and way-sides.

May, June.

In all the districts.

b. *V. angustifolia*, Roth.

Bab. Man. 94. Hook. St. Fl. 109. Galp. 62.

1. Euston to Ixworth Thorpe ; Thetford :—Mildenhall and Gt. Barton, *Sir C.J.F.B.* :—Culford Heath, *Gray* :—Tostock, *Hb. Cas.* :—Herringswell, *Rev. F. Tearle* :—Santon Downham, *Hb. Sk.* :—Rougham, *Sk. ms.* :—Westley, *Hb. Wils.* 1832 :—Fornham, *Hb. Ly.*

2. Nayland and Stoke. 3. Bungay, *Stock.*

4. Dunwich and Westleton :—Gt. Glemham, *E.N.B.*

5. Orford ; Bentley ; Needham Market and Ipswich :—Blaxhall, *E.N.B.*

c. *V. Bobartii*, Forst.

Bab. Man. 94. Hook. St. Fl. 109.

1. Honington || ; Knettishall || ; Euston to Ixworth Thorpe ; Thetford ; Elveden and Brandon ; Mildenhall :—Santon Downham, *Hb. Sk.* :—Culford Heath, *Gray* :—Stowlangtoft, *Rk.*

2. Stoke-by-Nayland and Polstead.

3. Oulton, *McAub.* 5. Aldeburgh.

Earliest notice 1773. Sir J. Cullum.

12. *V. lathyroides*, Linn.

Spring Vetch.

Bab. Man. 94, 95. Hook. St. Fl. 109. Hist. Yarm. Hist. Bury. Top. Bot. Suff. E. and W. Galp. 62.

Small prostrate annual ; on sandy soil ; not common.

May, June.

1. Thetford || ; Honington || ; Sapiston || ; Elveden ; Fakenham :—Mildenhall, *Hbb. Blk. & Sutt.* :—between Stowlangtoft and Norton, *Hb. Rk.* :—Icklingham, *Hb. Sk.* :—Bury and West Stow, *H. & S.* :—Fornham and Cavenham, *Sk. ms.* :—Risby Heath, *F. S. Marshall.*

3. Burgh Castle, *Wigg* :—Bungay, *Stock.* :—Homersfield, *H.B.C.* :—Southwold, *J.H.G.*

4. Westleton || :—Lit. Glemham, *E.N.B.* :—Framlingham and Sweffling, *Crabbe* :—Huntingfield, *Holland* :—Melis, *Collins.*

5. Barham, *Hb. F.* :—Blaxhall and Tunstall Heath, *E.N.B.* :—Felixstowe || :—Aldeburgh, *Crabbe* :—Creeting, *Hb.*

Jeffes:—Kesgrave, *I.S. Soc.*

Earliest notice 1773. Sir J. Cullum.

Lathyrus, Linn.

1. *L. Aphaca*, Linn. *Yellow Vetchling.*

Bab. Man. 95. Hook. St. Fl. 110. H. & S. 24. Hist. Bury.

Top. Bot. Suff. E. and W.

Annual; in sandy fields; rare. May to August.

1. Fornham St. Martin, *Hb. Blk.*:—Lit. Saxham, *Hb. Blk.*:—near Barton Church, *Sir C.J.F.B.*:—‘Border of a field near Hawstead,’ *Dr. Bromfield*:—‘Gravel-pit near Sicklesmere,’ *Sir T. G. Cullum*:—Stanton, *Miss Sheppard in Hb. Jeffes.*

2. Preston Hall ||, *C.B.*:—Preston, near the Church, *W.J.*:—near Sudbury, *J.S.H.*:—Long Melford, *J.F.W.*:—Naughton, *H. & S.*:—Whepstead, *Mrs. Bevan.*

3. Clay-pit at Bungay, *Stock* and *Dr Woodward in Hb. Geld.*

5. A ballast casual at Ipswich ||:—Baylham, *Hb. F.*:—Hemingstone, *F. Fox.*

Earliest record 1773. Sir J. Cullum.

2. *L. Nissolia*, Linn. *Grass Vetchling.*

Bab. Man. 95. Hook. St. Fl. 110. H. & S. 24. Hist. Fram.

Top. Bot. Suff. E. and W. Galp. 62.

Annual; on banks and bushy places; not frequent.

June.

1. Stowlangtoft, *Hb. Dun.*:—Fornham St. Martin, *Hb. Blk.* & *Sir C.J.F.B.*

2. Naughton, *H. & S.*

3. Bungay, *Stock.*

4. About Parham and Easton, *Crabbe*:—Darsham, *Ms. Davy*:—Mendham Hill, *Galp.*

5. Baylham ||, *Hb. F.*:—between Foxboro’ Hall and Melton Asylum, *Moor*:—Burstall, *F. Fox*:—Felixstowe and Ipswich, *W.L.N.*:—Falkenham, *Haward.*

Earliest record 1773. Sir J. Cullum.

[*L. sphæricus*, Retz.

Round-seeded Vetchling.

Bab. Man. 95. Hook. St. Fl. App 530.

Annual; a ballast casual, native of the South of Europe.

June, July.

5. Young plant, not in flower ; Ipswich Docks ||, June, 1885. Hind.]

4. *L. pratensis*, Linn. *Meadow Vetchling*.
 Bab. Man. 95. Hook. St. Fl. 111. H. & S. 24. Hist Yarm.
 Hist. Wher. Top. Bot. Suff. E. and W. Galp. 63.
 Herbaceous perennial ; very common in meadows and
 pastures. July, August.
 In all the districts.
 Earliest notice 1773. Sir J. Cullum.

6. *L. silvestris*, Linn. *Everlasting Vetchling*.
 Bab. Man. 96. Hook. St. Fl. 111. H. & S. 24. Hist. Bury.
 Top. Bot. Suff. E? and W.
 Herbaceous perennial ; not frequent ; in woods and
 thickets. July to September.
 1. Woods at Gt. Saxham, Sir T. G. Cullum :—Hard-
 wick, *Hb. Ly.* :—Troston ?
 2. Trundley Wood, Thurlow ||, *Hb. F.* :—Gallow Hill
 and Wood Hall Lane, Sudbury, Dr. White.
 5. Gt. Bealings, Moor :—Bramford Wood, *Ips. Portf.* :
 —Banks of Orwell, Miller.
 Earliest notice 1804. Sir T. G. Cullum.

7. *L. palustris*, Linn. *Marsh Vetchling*.
 Bab. Man. 96. Hook. St. Fl. 112. H. & S. 24. Top. Bot.
 Suff. E and W.
 Herbaceous perennial ; in marshes and boggy meadows ;
 rare. June, July.
 1. Lakenheath, *F.K.E. in Hb. Ly.* :—Tuddenham, *Hb.*
Wils. :—near Euston Bridge (? Norf. or Suff.), *Hb. Salm.*
 3. Marshes at North Cove and Barnby, *Holmes* :—
 Burgh Castle marshes, *Hb. Budd.* :—Belton Bog, *Paget* :—
 Oulton Broad, *McAub.* :—Carlton Colville ||, *Hb. Sk.* :—Bec-
 cles and Worlingham, *F. Turner* :—Flixton, *Wigg* :—Roos
 Hall marshes, *R. E. Leach*.
 5. Casually on ballast at Ipswich docks ||, 1885.
 Earliest notice circa 1698. Buddle.

8. *L. maritimus*, Big. *Sea Pea*.
 Bab. Man. 96. Hook. St. Fl. 112. H. & S. 24. Top. Bot. Suff. E.
 Herbaceous perennial ; on the shingly sea-shore ; rare.
 July, August.

5. Several good-sized patches East of Landguard Fort :—Aldeburgh ||, *Hbb. F. & Blk.* :—Orford Beach, *Hb. Cas.* :—Orford Light-house, *Hele* :—Shingle Street, *Holmes* :—Walton, *Ips. Portf.* :—‘On the long baich of stones running from Aldeburgh toward Orford in Suffolk; on the end next Orford abundantly,’ *Ray* :—Felixstowe, *Miller*.

Earliest record 1556. *Caius*.

9. *L. macrorrhizus*, *Wimm.* *Orob. tuberosus*, *Linn.*
Tuberous Vetchling.

Bab. Man. 96. Hook. St. Fl. 112. H. & S. 24. Top. Bot. Suff. W.

Herbaceous perennial; frequent in woods and the borders of fields throughout the greater part of Great Britain. It has, however, not been found in Cambridgeshire, nor in the three Northern divisions of Essex; and it is doubtful whether it has been found in Norfolk. As regards Suffolk, one locality only has been given for it in *H. & S.* The Editor has been resident for upwards of fourteen years on that spot, and has looked for it in vain. There is, however, a specimen in the late Mr. Skepper's Herbarium, with the authority *J. Gedge*, no locality given. The plant is mentioned in the journal of *Sir J. Cullum*, under the date May 3rd, 1776. It is also given for West Suffolk in the Appendix to the *Cybele Britannica*, but on the authority of *H. & S.* We much fear that there has been some mistake in regarding it as a native of the County.

1. Honington, *H. & S.?*

Ornithopus, *Linn.*

1. *O. perpusillus*, *Linn.* *Common Bird's-foot.*

Bab. Man. 97. Hook. St. Fl. 105. H. & S. 23. Hist. Fram.
Hist. Wher. Hist. Yarm. Top. Bot. Suff. E. & W. Galp. 61.

Small prostrate annual; usually on light dry soil.

May to July.

Frequent in all the districts.

Earliest notice 1773. *Sir J. Cullum*.

Hippocrepis, *Linn.*

1. *H. comosa*, *Linn.*

Horseshoe Vetch.

Bab. Man. 97. Hook. St. Fl. 106. H. & S. 23. Hist. Bury.
Top. Bot. Suff. E. and W.

Small perennial ; on dry chalky banks ; rare.

May to August.

1. Risby Heath ||, *C.B.* :—Newmarket Heath, *Hb. Rk.* :—Barton Mills, near Mildenhall, on grassy slopes in the great chalk-pit, *Sir C.J.F.B.* :—Dalham, *Rev. F. Tearle* :—Barrow Bottom, *Sk. ms.* :—‘Plantation of Scotch firs before you come to Cavenham,’ *Sir J. Cullum*.

2. Sudbury, as you go from Cornard Church, *Ger.*

5. Offton and Somersham, *H. & S.*

Earliest record 1597. *Gerarde*.

Onobrychis, *Gært.*

1. *O. sativa*, *Lam.* *Sainfoin. Cock's-head.*

Bab. Man. 97. Hook. St. Fl. 106. H. & S. 23. Top. Bot.
Suff. W. Galp. 62.

Herbaceous perennial, largely cultivated as fodder ; native on chalky soil ; local. June, July.

1. Barnham || ; Ingham ; Bury ; Barton Mills and Haughley :—Herringswell, and in chalk-pits at Mildenhall, *Sir C.J.F.B.* :—Newmarket, *Hb. Blk.* :—Pakenham, *Hb. Cas.* :—Walsham, *Hb. Dun.* :—Risby Chalk-bank, *Sk. ms.* :—Westley, *Hb. Wils.*

2. Cockfield, *W.J.* :—Hitcham, *Prof. Hens* :—Clare.

3. Oulton, *McAub* :—Bungay, *Dr. Woodward* :—St. Margaret's, *Galp.*

4. Mendham, an escape, *H.B.C.*

5. Gt. Bealings, *Moor* :—Grundisburgh, *T.H.*

Earliest record 1773. *Sir J. Cullum*.

ROSACEÆ.

Prunus, *Linn.*

1. *P. communis*, *Huds.* *Plum.*

Bab. Man. 100. Hook. St. Fl. 114. H. & S. 25. Hist. Yarm.
Top. Bot. Suff. E. and W. Galp. 63.

Deciduous shrub ; very common in hedges and thickets.

April, May.

a. P. spinosa, Linn. *Sloe. Blackthorn.*
Frequent in all the districts.

b. P. insititia, Linn. *Bullace.*

1. Woolpit ||, *F.*:—Badwell Ash; Lakenheath; One-house; Harleston and Shelland.

2. Hitcham, *Prof. Hens.*:—Kersey, *E.F.L.*

3. Henstead.

4. Dunwich and Westleton:—Gt. Glemham, *E.N.B.*

5. Gt. Bealings, *Moor.*

c. P. domestica, Linn. *Wild Plum.*

1. Honington ||; Pakenham and Market Weston ||:—Walsham, *Hb. Dun.*:—Shelland and Icklingham.

2. Polstead and Stoke.

3. Hopton and Henstead:—Blundeston, *G. Clowes in Hb. Geld.*

4. Sibton and Westleton:—Weybread, *H.B.C.*

5. Alderton and Hollesley.

Earliest record 1773. Sir J. Cullum.

2. *P. Padus*, Linn. *Bird Cherry.*

Bab. Man. 100. Hook. St. Fl. 115. H. & S. 25. Hist. Fram.
Hist. Yarm. Cyb. Br. App.? Galp. 63.

Small deciduous tree; doubtfully wild in Suffolk;
thickets. *May.*

1. Honington ||; Gt. Barton and Coney Weston, apparently introduced; seemingly native in a copse at Cavenham:—Dalham, *Rev. F. Tearle*:—Santon Downham, *Norgate*.

3. 'Fritton Wood, not wild,' *Paget*:—Gunton Wood, *G. Clowes in Hb. Geld.*

4. Framlingham, in woods, *Crabbe*:—Hoxne, *Galp.*

Earliest notice 1798. Rev. G. Crabbe.

3. *P. Avium*, Linn. *Wild Cherry. Gean.*

Bab. Man. 101. Hook. St. Fl. 115. Top. Bot. Suff. E. and W.
Galp. 63.

Tall deciduous tree; in woods and hedges; not common.
May.

1. Fakenham Wood ||; Cavenham; Troston and Stowlangtoft:—Dalham, *Rev. F. Tearle*:—Rougham; Saxham and Bradfield, *Sk. ms.*

2. Polstead and Wiston:—Stoke-by-Nayland, *Gray*:—Hitcham and Stanstead, *Sk. ms.* Known in Suffolk as the Polstead Cherry, *M.M.*

4. Yoxford, *T.W.G.*:—Weybread, *H.B.C.*:—Oakley, *Collins*.

5. Bentley:—Ashbocking, *F.C.S.*:—Needham Market, *E. Clowes*:—Barking, *Hb. Jeffes*.

Earliest notice 1797. T. Martyn.

4. *P. Cerasus*, *Linn.*

Dwarf Cherry.

Bab. Man. 101. Hook. St. Fl. 115. H. & S. 25. Hist. Fram.

Deciduous shrub; in woods and thickets; not frequent. May.

1. Euston ||; Coney Weston; Elveden and Wetherden:—Stanton, *Hb. Cas.*:—Stowlangtoft, *Hb. Rk.*:—Felsham Wood, *W.J.*:—Saxham, *Sk. ms.*

2. Long Melford:—Hitcham, *Hb. Hens*.

3. Fritton. 4. Sibton:—Framlingham, *Crabbe*.

5. Stutton.

Earliest notice 1696. Dale.

Spiræa, *Linn.*

2. *S. Ulmaria*, *Linn.*

Meadowsweet.

Bab. Man. 101. Hook. St. Fl. 116. H. & S. 25. Hist. Yarm.

Hist. Wher. Top. Bot. Suff. Galp. 63.

Herbaceous perennial; common by streams and ditches.

June to August.

Frequent in all the districts.

Earliest notice 1773. Sir J. Cullum.

3. *S. Filipendula*, *Linn.*

Dropwort.

Bab. Man. 101. Hook. St. Fl. 116. H. & S. 25. Hist. Fram.

Hist. Bury Top. Bot. Suff. E. ? and W.

Herbaceous perennial; in chalky pastures and heaths.

June, July.

1. Bardwell; Barnham; Fakenham; Honington; Ixworth and Troston ||; Risby and Higham:—Walsham, *Hb. Dun.*:—Fornham, *Hb. Sk.*:—Stowlangtoft, *Hb. Rk.*:—Barton, *Hb. Blk.*:—Culford Heath, *Gray*:—Market Weston, *E.F.L.*:—Cavenham and Newmarket, *F.*:—Tuddenham, *Rev. F. Tearle*:—Bury, *Sir J. Cullum*:—Westley and Culford, *H. & S.*

2. Gt. Bradley, *Hb. F.*

4. Cookley :—Framlingham, *Crabbe* :—Burgate, *C. J. Ashfield*.

Earliest notice 1773. Sir J. Cullum.

Sanguisorba, *Linn.*

1. *S. officinalis*, *Linn.* *Poterium officinale*, Hook. fl.
Great Burnet.

Bab. Man. 102. Hook. St. Fl. 129. H. & S. 26. Top. Bot.
Suff. W ?

Herbaceous perennial ; in marshes and boggy meadows.
June to August.

1. Thelnetham Fen || ; Hinderclay Fen :—Laken-
heath, *F. K. Eagle*.

4. Palgrave, *Collins*.

Earliest notice, probably 1810. F. K. Eagle.

Poterium, *Linn.*

1. *P. Sanguisorba*, *Linn.* *Lesser Burnet.*

Bab. Man. 102. Hook. St. Fl. 128. H. & S. 27. Top. Bot.
Suff. E. and W.

Herbaceous perennial ; on dry and chalky pastures.

June to August.

1. Bury || ; Market Weston || ; Fornham St. Martin ;
Troston, Bardwell and Fakenham ; Brandon ; Elveden ;
Higham and Wangford :—Barton, *Hbb. Blk. & Rk.* :—Stan-
ton, *Hb. Cas.* :—Risby Chalk Bank and Barrow Bottom, *Sk.*
ms. :—Dalham, *Rev. F. Tearle* :—Tuddenham, *Hb. Wils.* :—
Mildenhall, *C.B.*

2. Long Melford and Acton :—Hitcham, *Prof. Hens.* :
—Sudbury, *J.S.H.* :—Lit. Thurlow, *Hb. F.* :—Gorleston,
J. Priest in Hb. Geld.

3. Oulton, *McAub.*

4. Stuston, *Collins*.

5. Bramford, *I.S. Soc.* :—Claydon and Shrubland :—
Lit. Blakenham, *Haward*.

Earliest record 1773. Sir J. Cullum.

†2. *P. muricatum*, *Spach.* *Muricated Burnet.*

a. P. platyphyllum, *Jord.*

Bab. Man. 102. Hook. St. Fl. 129. Galp. 66.

Herbaceous perennial, usually a stray from cultivation.
June, July.

1. Fakenkam ||, in a stoverfield; Higham:—Culford Heath, *Gray*.

4. Mendham hill, *Galp*.

Earliest notice 1878. Rev. J. D. Gray.

Agrimonia, *Linn*.

1. *A. Eupatoria*, *Linn*. *Agrimony*.

Bab. Man. 102. Hook. St. Fl. 128. H. & S. 27. Hist. Fram.
Hist. Wher. Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 65.

Herbaceous perennial; common in borders of fields.

June, July.

In all the districts.

First record 1773. Sir J. Cullum.

Alchemilla, *Linn*.

1. *A. vulgaris*, *Linn*. *Lady's Mantle*.

Bab. Man. 103. Hook. St. Fl. 127.

Perennial herb; usually in hilly pastures; rare in Suffolk.
June to August.

2. Cockfield ||, *C.B.*:—between Lidgate and Cowlinge, *Rev. F. Tearle*.

5. Hemingstone?, *T.B.*:—Woodbridge, *Hb. Ly*.

Earliest record 1776. Sir J. Cullum.

2. *A. arvensis*, *Linn*. *Parsley Piert*.

Bab. Man. 103. Hook. St. Fl. 127. H. & S. 26. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. and W. Galp. 65.

Annual weed; frequent in dry sandy fields.

May to August.

In all the districts.

Earliest notice 1774. Sir J. Cullum.

Potentilla, *Linn*.

2. *P. anserina*, *Linn*. *Silver-weed*.

Bab. Man. 104. Hook. St. Fl. 125. H. & S. 26. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. and W. Galp. 65.

Perennial weed of prostrate habit; by way-sides.

Very common in all the districts. June, July.

Earliest record 1773. Sir J. Cullum.

3. *P. argentea*, Linn.

Hoary Cinquefoil.

Bab. Man. 104. Hook. St. Fl. 125. H. & S. 26 Hist. Yarm.
 Hist. Wher. Top. Bot. Suff. E. and W. Galp. 65.

Herbaceous perennial, on dry banks and gravelly places.
 June, July.

1. Hopton || ; Fakenham ; Honington ; Sapiston, and West Stow :—Pakenham *Hb. Blk.* :—Stowlangtoft and Troston, *Hb. Cas.* :—Woolpit, *Hb. F.* :—Tuddenham, *Hb. Sk.* :—near Bombay, Mildenhall, *Sir C.J.F.B.* :—Cavenham, *W.J.* :—Barton Blackett :—Fornham, *H. & S.*

2. Nayland :—Polstead, *H. & S.*

3. Burgh Castle Walls, *Paget* ; Bungay, *Stock* :—Lowestoft, *H. G. Glasspoole in Hb. Geld.* :—Oulton, *McAub.* :—Homersfield :—Flixton, *Galp.*

4. Westleton || :—Sweffling, *E.N.B.* :—Palgrave, *Collins* :—Walberswick, *J.H.G.*

5. Felixstowe :—Blaxhall, *E.N.B.* :—behind Kesgrave Bell, *Moor.* :—Freston, *W.L.N.* :—Wherstead, *Haward* :—Orford, near the Castle, *E.N.B.* :—Creting Hills, *Hb. Jeffes* :—Woolverstone, *Hb. Ly.*

First record 1773. Sir J. Cullum.

4. *P. verna*, Linn.

Spring Cinquefoil.

Bab. Man. 104 Hook. St. Fl. 125. Hist. Bury. Top.
 Bot. Suff. W. ?

Small prostrate perennial ; on dry banks ; very rare.
 April, May.

1. West Stow Heath || :—‘ Icklingham, 10 miles from Bury, *Sir Jno. Cullum* ’ :—‘ near Culford and Lackford is found *P. verna* ’ *Dill. Ray in Hort. Oxon.* :—see also extract under *Anemone Pulsatilla* :—there are two specimens in *Hb. Sk.*, the first without locality, ‘ communicated by *F.K. Eagle, Esq.* ’ the second labelled. ‘ The lower I found near Icklingham with the *Anemone Pulsatilla* ’ :—‘ On a bank at Cavenham Severals, ’ *Sir C.J.F.B.* :—‘ Beyond Risby Heath Fir Plantation, ’ *Sk. ms.* :—‘ Canham (Cavenham) Heath, near Bury, Suffolk, *Woodward.* ’ *With.* :—‘ Sir Thomas Gery Cullum, Bart., observed it many years since near Bury in Suffolk, ’ *M.M.* ‘ Chalk-bank at Cavenham Severals, *Sir T. G. Cullum* ’ :—Bury, June, 1833, *Hb. Wils.*

Earliest notice, April 20, 1774. Sir J. Cullum.

6. *P. reptans*, Linn.

Creeping Cinquefoil.

Bab. Man. 105. Hook. St. Fl. 125. H. & S. Hist. Yarm.
 Hist. Wher. Top. Bot. Suff. E. and W. Galp. 65.

Prostrate herbaceous perennial ; on waysides & pastures.
June to September.

Very common in all the Districts.

Two small forms occur : one with very short petioles and broadly obovate leaflets at Bardwell and Flempton || : the other with long petioles, leaflets narrowly obovate and much connected at Lackford ||.

Earliest record 1773. Sir J. Cullum.

7. *P. Tormentilla*.

Tormentil.

Bab. Man. 105. Hook. St. Fl. 124. H. & S. 26. Hist. Yarm.
Hist. Wher. Top Bot. Suff. E. and W. Galp. 65.

Herbaceous perennial ; on heaths and in woods.

June to August.

Common in all the districts.

First record 1773. Sir J. Cullum.

P. procumbens, *Sibth.*

Procumbent Cinquefoil.

Bab. Man. 105. Hook. St. Fl. 125. H. & S. 26. Hist. Yarm.
Top. Bot. Suff. E.

Herbaceous perennial ; on dry banks ; not common.

June to August.

1. Lackford and Cavenham :—Risby Heath, *H. b. Wils.*

3. Lound ; Lane at Belton, near Browston Hall, *Wigg* :
—Wood at Corton, *D. Turner* :—Lowestoft, *Sk. ms.*

4. Botesdale ||.

Earliest notice 1805. Dawson Turner.

9. *P. Fragariastrum*, *Ehrh.*

Barren Strawberry.

Bab. Man. 105. Hook. St. Fl. 126. H. & S. 26. Hist. Fram.
Hist. Wher. Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 65.

Small prostrate perennial ; on banks and in woods.

Frequent in all the districts.

April, May.

Earliest record 1773. Sir J. Cullum.

Comarum, *Linn.*

1. *C. palustre*, *Linn.*

Potentilla Comarum, *Nestl.*

Marsh Cinquefoil.

Bab. Man. 105-6. Hook. St. Fl. 124. H. & S. 26. Hist. Yarm.
Top. Bot. Suff. E. and S.

Herbaceous perennial ; in bogs and marshy ditches.

July.

1. Euston ||; Ixworth Thorpe and Hopton; Cavenham; Santon Downham; Lakenheath and Brandon:—Lackford, *Hb. Rk.*:—Tuddenham, *Hb. Sk.*:—Mildenhall, abundant in peaty bogs and fen ditches, *Sir C.J.F.B.*:—West Stow, *Blackett*:—Coney Weston, *Sk. ms.*:—Eriswell, *C.B.*

2. Sudbury, *J.S.H.*

3. Beccles; Belton; Fritton; Lound and Kessingland:—Lowestoft, *Hb. Blk.*:—Bungay, *Stock*:—Benacre, *E.N.B.*:—Somerleyton, *Sk. ms.*:—Oulton, *McAub.*:—Barnby Broad; Worlingham, *R. E. Leach.*

4. Redgrave Fen:—Edge of Westleton Moor, *Ms. Davy.*

5. Bramford, *Miller.*

Earliest notice 1773. Sir J. Cullum.

Fragaria, Linn.

1. *F. vesca*, Linn.

Wood Strawberry.

Bab. Man. 106. Hook. St. Fl. 123. H. & S. 26. Hist. Fram.
Hist. Wher. Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 65.

Herbaceous perennial; in woods and on hedge-banks.

May, June.

Common in all the districts.

First notice 1798. Rev. G. Crabbe.

†2. *F. elatior*, Ehrh.

Hautboy Strawberry.

Bab. Man. 106. Hook. St. Fl. 123.

Herbaceous perennial; in woods; rare. June to Sept.

1. Bury, *J. Priest in Hb. Geld.*

2. Woods at Great Bradley ||, *Hb. F.*

First notice 1851. Mrs. French.

Rubus, Linn.

1. *R. Idæus*, Linn.

Raspberry.

Bab. Man. 107. Hook. St. Fl. 117. H. & S. 25. Top. Bot.
Suff. E. and W. Lindl. Syn. 92.

Prickly shrub, roots perennial, stems biennial; in woods, thickets, and on heaths; not very common. June.

Distributed through all the districts. A form with minute leaves in Polstead Marsh ||.

Earliest record 1773. Sir J. Cullum.

2. *R. plicatus*, *W. & N.* *R. sulcatus*, Vest.
Folded Bramble.
 Bab. Man. 107, 8. Hook. St. Fl. 118. Lond. Cat. 419.
 Lindl. Syn. 92.
 Prickly shrub ; on heaths. June, July.
 2. Cockfield, *C.B.* 3. Fritton ||.
 First recognized 1870. Dr. Babington.
3. *R. nitidus*, *W. & N. (not Bell Salt.)* *Shining*
Bramble.
 Notes Br. Rubi. 3. Lond. Cat. 421.
 Prickly shrub ; in hedges and thickets. July, August.
 3. Belton ; Gorleston || ; Fritton.
 First recognized 1882. Hind.
5. *R. affinis*, *W. & N.* *Allied Bramble.*
 Bab. Man. 108. Notes Br. Rubi. 5. Lond. Cat. 422. Hook.
 St. Fl. 118.
 Prickly shrub ; in heaths and woods. July, August.
 3. Hopton ||.
 First recognized 1882. Hind.
6. *R. Lindleianus*, *Lees.* *Lindley's Bramble.*
 Bab. Man. 108. Hook. St. Fl. 118. Lond. Cat. 424. Galp. 63.
 Prickly shrub ; in hedges. July, August.
 1. Honington || ; Fakenham and Sapiston.
 2. Wiston :—Polstead, *Gray.* 3. Covehithe.
 4. Redgrave || :—Weybread, *H.B.C.*
 First recognized 1882. Hind.
6. *R. rhamnifolius*, *W. & N.* *Buckthorn-leaved*
Bramble.
 Bab. Man. 109. Hook. St. Fl. 118. Notes Br. Rubi. 6.
 Lond. Cat. 425. Galp. 63. Lindl. Syn. 94.
 Prickly shrub. in hedges and thickets. July, Aug.
 1. Nowton, *Hb. Wils.* 3. Flixton, *H.B.C.*
 First recognized 1833. Hb. Wilson.
9. *R. ramosus*, *Blox.* *Branching Bramble.*
 Bab. Man. 109. Hook. St. Fl. 118. Notes Br. Rubi. 7.
 Lond. Cat. 428.
 Prickly shrub ; thickets. June, July.
 2. Polstead Marsh, *E.F.L.*
 First recognized 1885. Rev. E. F. Linton.

11. *R. pubescens*, W. & N. *Pubescent Bramble.*

Bab. Man. 110. Notes Br. Rubi. 11. Lond. Cat. 431.

Prickly Shrub; in hedges and thickets. July, Aug.

1. Troston Heath and Ixworth Thorpe.

5. Felixstowe.

First recognized 1885. Hind.

12. *R. rusticanus*, Mere. *R. discolor*, W. & N.
Common Bramble.

Bab. Man. 110. Hook. St. Fl. 119. Notes Br. Rubi. 12

Lond. Cat. 432. H. & S. 25. Galp. 64. Lindl. Syn. 95.

Prickly shrub; very common in hedges and thickets.

Widely distributed in all the districts. July, August.

A plant belonging to this or the next form with white fruit from Needham Market, *Miss Jeffes*.

Earliest notice 1773. Sir J. Cullum.

13. *R. leucostachys*, Sm. *White panicle Bramble.*

Bab. Man. 111. Hook. St. Fl. 119. Notes Br. Rubi. 13.

Lond. Cat. 433. Galp. 64. Lindl. Syn. 95.

Prickly shrub; In hedges, woods and thickets.

July, August.

2. Wiston ||:—Nayland and Polstead, *Gray*:—Kersey, *E.F.L.*:—a form of this with crimson blossoms occurs in a wood near Nayland.

3. Flixton, *H.B.C.*

Var. *R. conspicuus*, P. J. Müll. *R. vestitus*, Weihe.

Bab. Man. 111. Hook. St. Fl. 119. Notes Br. Rubi. 14.

Lond. Cat. 433. b.

1. Sapiston ||; Coney Weston.

2. Wiston; Polstead:—Stoke-by-Nayland, *Gray*.

5. Bawdsey.

First recognized, 1883. Hind.

15. *R. pyramidalis*, Kalt. *R. hirtifolius*, Müll.
Pyramidal Bramble.

Bab. Man. 111. Hook. St. Fl. 119. Notes Br. Rubi. 15.

Lond. Cat. 434.

Prickly shrub, in heathy places.

July, August.

1. Troston.

First recognized 1881. Hind.

18. *R. Salteri*, Bab.*Salter's Bramble.*

Bab. Man. 112.

Hook. St. Fl. 119.

Notes Br. Rubi. 18.

Lond. Cat. 437.

Prickly shrub ; in woods and hedges.

July, August.

2. Wiston ||.

Var. *R. calvatus*, Blox.*Bald Bramble.*

Bab. Man. 112.

Hook. St. Fl. 119.

Notes Br. Rubi. 18.

Lond. Cat. 437. b.

3. Fritton || ; Henstead.

First recognized 1882. Hind.

*18. *R. carpinifolius*, W. & N.
*Bramble.**Hornbeam-leaved*

Bab. Man. 112.

Hook. St. Fl. 119.

Notes Br. Rubi. 18.*

Lond. Cat. 438. Galp. 64. Lindl. Syn. 93.

Prickly shrub ; in open places.

July, August.

1. Honington || ; Sapiston Grove.

2. Wiston, *E.F.L.* :—Polstead, *Gray*.3. St. Margaret's (E.A.H.), *Galp*.

4. Redgrave Fen.

First recognized 1882. Hind.

19. *R. villicaulis*, W. & N. *Shaggy-stemmed Bramble.*

Bab. Man. 112-3.

Hook. St. Fl. 119.

Notes Br. Rubi. 19.

Lond. Cat. 439.

Prickly shrub ; in woods and hedges.

July, August.

1. Honington || ; Fakenham and Sapiston.

First recognized 1881. Hind.

22. *R. Maasii*, Focke.*Maas' Bramble.*

Notes Br. Rubi. 22.

Lond. Cat. 440.

Prickly shrub ; in hedges.

July, August.

3. Henstead ||.

First recognized 1886. Hind.

23. *R. macrophyllus*, W. & N.
*Bramble.**Long-leaved*

Bab. Man. 113.

Hook. St. Fl. 119.

Notes Br. Rubi. 23.

Lond. Cat. 441. Galp. 64. Lindl. Syn. 93.

Prickly shrub ; in woods and thickets.

July, August.

1. Troston || ; Fakenham Wood ; Risby Heath, in a

Grove ||.

4. Mendham Priory Plantation, *Galp.*Var. *b.* *R. Schlectendalii*, W. & N.

Bab. Man. 113. Notes Br. Rubi. 23. Lond. Cat. 441. b.

Prickly shrub ; in woods and thickets. July, Aug.

4. Weybread, *H.B.C.*

Earliest notice 1885. Rev. F. W. Galpin.

Var. *c.* *R. amplificatus*, Lees.

Bab. Man. 113.

Hook. St. Fl. 119.

Notes Br. Rubi. 23.

Lond. Cat. 441. c.

3. Benacre ||.

Var. *d.* *R. glabratus*, Bab.

Bab. Man. 113.

Hook. St. Fl. 119.

Notes Br. Rubi. 23.

1. Fakenham || ; Troston.

First recognized 1881. Hind.

*25. *R. rubicolor*, *Blox.**Ruddy Bramble.*

Notes Br. Rubi. 25. Lond. Cat. 444.

Prickly shrub ; in woods and thickets. July, Aug.

2. Polstead, *Gray.*

4. Mellis || and Burgate.

First recognized 1886. Hind.

28. *R. thyrsiflorus*, W. & N.
*Bramble.**Thyrsus-flowered*Var. *R. philyrophyllus*, L. & M.*Lime-leaved Bramble.*

Notes Br. Rubi. 28. Lond. Cat. 446. b.

Prickly shrub ; in hedges.

July, August.

1. Honington || ; Ixworth Thorpe.

First recognized in 1884. Hind.

29. *R. rosaceus*, W. & N.*Rose-like Bramble.*

Bab. Man. 115.

Hook. St. Fl. 121.

Notes Br. Rubi. 29.

Lond. Cat. 447.

Prickly shrub ; in woods and thickets.

July, Aug.

1. Fakenham Wood || ; Shelland.

2. Polstead, *Gray.*

4. Mellis.

Var. *R. Hystrix*, Weihe.*Porcupine Bramble.*

1. Fakenham Wood || ; Sapiston.

First recognized 1881. Hind.

32. *R. echinatus*, Lindl. *R. rudis*, Weihe, not Focke.
Hedgehog Bramble.

Bab. Man. 116. Hook. St. Fl. 120. Notes Br. Rubi. 32.
Lond. Cat. 452. Lindl. Syn. 93.

Prickly shrub; in hedges and thickets. July, Aug.

1. Fakenham Wood.

2. Wiston || :—Nayland and Polstead, Gray.

First recognized 1884. Hind.

R. rudis, Focke.

Rough Bramble.

Notes Br. Rubi. 32.

Prickly shrub; in hedges.

July, August.

4. Mellis ||.

First recognized 1887. Hind.

33. *R. Radula*, Weihe.

Scraper Bramble.

Bab. Man. 116.

Hook. St. Fl. 120.

Notes Br. Rubi. 33.

Lond. Cat. 455. Galp. 64.

Prickly shrub; in hedges and thickets. July, August.

1. Ixworth Thorpe.

2. Wiston ||.

4. Weybread, H.B.C. :—Mendham Priory Plantation,

Galp.

Earliest notice 1884. Hind.

34. *R. Kœhleri*, Weihe.

Köhler's Bramble.

Bab. Man. 117.

Hook. St. Fl. 120.

Notes Br. Rubi. 34.

Lond. Cat. 456. Lindl. Syn. 93.

Prickly shrub; in hedges and thickets.

July, Aug.

1. Bury, Lindl. Syn.

Var. *b.* *R. infestus*, Weihe.

Bab. Man. 117.

Hook. St. Fl. 120.

Notes Br. Rubi. 34. b.

Lond. Cat. 456. b. Galp. 64

4. Weybread, H.B.C.

Var. *e.* *R. pallidus*, Weihe.

Notes Br. Rubi. 34. e.

Lond. Cat. 456. e.

Galp. 64.

1. Troston ||; Honington.

2. Wiston :—Polstead, Gray.

4. Weybread, Galp.

Var. *f.* *R. cavatifolius*, P. J. Müll.

Notes Br. Rubi. 34. f.

Lond. Cat. 456. f.

1. Honington ||; Fakenham Wood.

First recognition 1841. Lindley.

35. *R. fusco-ater*, *Weihe*?. *Dark Bramble.*
 Bab. Man. 117, 8. Hook. St. Fl. 120. Notes Br. Rubi. 35.
 Lond. Cat. 457. Lindl. Syn. 93.
 Prickly shrub; on heaths and commons. July, Aug.
 1. Troston; Ixworth Thorpe ||.
 First recognized 1882. Hind.
36. *R. diversifolius*, *Lindl.* *Various-leaved Bramble.*
 Bab. Man. 118. Hook. St. Fl. 120. Lindl. Syn. 94. Notes
 Br. Rubi. 36. Lond. Cat. 459.
 Prickly shrub; in hedges. July, August.
 1. Honington ||; Ixworth Thorpe; Wicken; Bardwell.
 2. Nayland and Wiston, *Gray*.
 First recognized 1885. Rev. J. D. Gray.
37. *R. mutabilis*, *Genev.* *Variable Bramble.*
 Bab. Man. 118. Hook. St. Fl. 120. Notes Br. Rubi. 37.
 Lond. Cat. 460.
 Prickly shrub; on hedge banks. July, August.
 1. Honington || 2. Wiston, *E.F.L.*
 First recognized 1885. Rev. E. F. Linton.
38. *R. Lejeunii*, *Weihe.* Likely *R. Fockelii*, Wirtg.
Lejeune's Bramble.
 Bab. Man. 119. Hook. St. Fl. 121. Notes Br. Rubi. 38.
 Lond. Cat. 461.
 Prickly shrub; in hedges. July, August.
 1. Troston ||; Sapiston.
 2. Polstead, *E.F.L.*:—Wiston, *Gray*.
 First recognized 1882. Hind.
41. *R. flexuosus*, *M. & L.* *R. Guntheri*, Ang. Auct.
Flexuous Bramble.
 Notes Br. Rubi. 41. Lond. Cat. 463.
 Prickly Shrub; in woods. July, August.
 2. Polstead, *Gray*.
 First recognized 1884. Rev. J. D. Gray.
- 41* *R. adornatus*, *Müll.* *Elegant Bramble.*
 Prickly shrub; in woods. July, August.
 2. Polstead, *E.F.L.*
 First recognized 1884. Rev. E. F. Linton.

42. *R. saxicolus*, *P. J. Müll.* *R. humifusus*. *Weihe.*
Rock Bramble.
 Bab. Man. 119, 20. Hook. St. Fl. 121. Notes Br. Rubi. 42.
 Lond. Cat. 464.
 Prickly shrub ; in woods and thickets. July, August.
 2. Wiston || :—Polstead Marsh, *E.F.L.*
 First recognized, 1884. Rev. E. F. Linton.
43. *R. foliosus*, *Weihe.* *Leafy Bramble.*
 Bab. Man. 120. Hook. St. Fl. 121. Notes Br. Rubi. 43.
 Lond. Cat. 465.
 Prickly shrub ; in hedges. July, August.
 2. Polstead, *Gray.*
 First recognized . Rev. J. D. Gray.
45. *R. pendulinus*, *Müll.* *Hanging Bramble.*
 Notes on Br. Rubi. 45.
 Prickly shrub. July, August.
 2. Polstead Marsh ||, *Gray.*
 First recognized 1886. Rev. J. D. Gray.
48. *R. Balfourianus*, *Blox.* *Balfour's Bramble.*
 Bab. Man. 121. Hook. St. Fl. 118. Notes Br. Rubi. 48.
 Lond. Cat. 470. Galp. 64.
 Prickly shrub ; in hedges. July August.
 1. Honington || ; Fakenham.
 2. Stoke-by-Nayland :—Polstead, *Gray.*
 3. Rushmere :—St. Margaret's, (E.A.H.) *Galp.*
 4. Dunwich ||.
 First recognized 1881. Hind.
49. *R. corylifolius*, *Sm.* *Hazel-leaved Bramble.*
 Bab. Man. 121. Hook. St. Fl. 118. Notes Br. Rubi. 49.
 Hist. Yarm. Lond. Cat. 471. Lindl. Syn. 93.
 Prickly shrub ; very frequent in hedges and thickets.
 June to August.
- a. *R. sublustris*, *Lees.*
 1. Pakenham, *Hb. Cas.* :—Barton, *Sir C.J.F.B.* :—
 Honington ||.
 2. Kersey, *E.F.L.* 3. Gorleston and Oulton.
 4. Dunwich || ; Redgrave.

b. *R. conjungens*, Bab.

1. Honington ||; Troston; Sapiston and Ixworth Thorpe.

2. Acton :—Polstead, *Gray*.

c. *R. fasciculatus*, P. J. Müll. *R. purpureus*, Bab.

1. Honington ||. 2. Nayland, *Gray*.

3. Kessingland.

First recognized 1840. Mrs. Casborne.

50. *R. deltoideus*, P. J. Müll. *R. althæifolius*, Host.
Deltoid Bramble.

Bab. Man. 122.

Hook. St. Fl. 118.

Notes Br. Rubi. 50.

Lond. Cat. 472. Galp. 64.

Prickly shrub; in hedges.

July, August.

1. Troston || :—Hardwick, *Hb. Wils.*

3. St. Peter's Lane, South Elmham, *Galp.*

First recognized 1833. Steggall.

51. *R. scabrosus*, P. J. Müll. *R. tuberculatus*, Bab.
Scabrous Bramble.

Bab. Man. 122.

Notes Br. Rubi. 51.

Lond. Cat. 473. Galp. 64.

Prickly shrub; in hedges and on commons.

July, August.

1. Sapiston; Euston || and Badwell Ash.

2. Nayland, *Gray* :—Cockfield, *C.C.B.*

3. St. Margaret's (E.A.H.) *Galp.*

First recognized 1871. Prof. C. C. Babington.

NOTE.—Several Rubi from Polstead await further examination. Among these it is possible that *R. melanoxyton*, M. & W., *R. pilocarpus*, Gr., and other forms new to Britain may occur.

52. *R. cæsius*, Linn. *Dewberry.*

Bab. Man. 122.

Hook. St. Fl. 118.

Notes Br. Rubi. 52.

Lond. Cat. 474.

H. & S. 25.

Lindl. Syn. 94.

Prickly shrub; with glaucous prostrate stem; and fruit having a cæsius bloom; frequent in hedges and thickets.

June, July.

a. *R. umbrosus*, Bab. *R. agrestis*, Bab.

1. Fakenkam Wood ||; Knettishall; Mildenhall :—Stow-

langtoft, *Hb. Rk.* :—Bury, *Hb. Sk.* :—Onehouse and Harleston :—Pakenham, *Hb. Cas.*

2. Cockfield, *C.B.* :—Kersey, *E.F.L.*

3. Kessingland. 4. Gt. Glemham, *E.N.B.*

5. Needham Market :—Ashbocking, *F.C.S.* :—Ipswich, *Miller.*

b. R. tenuis, Bell. Salt.

1. Troston || ; Knettishall ; Ixworth Thorpe.

2. Acton.

c. R. ligerinus, Genev. *R. ulmifolius*, Bab.

1. Fakenham || ; Honington ; Sapiston Grove || and Mildenhall.

2. Hitcham, *Hb. Hens.*, 1853. 4. Mellis.

d. R. intermedius, Bab.

1. Fakenham || :—Stowlangtoft, *Hb. Rk.*

e. R. Pseudo-idaeus, Lej.

3. Hedge near Beccles.

4. South-east of Redgrave Fen ||.

First record 1773. Sir J. Cullum.

Geum, *Linn.*

1. *G. urbanum*, *Linn.*

Wood Avens.

Bab. Man. 125.

Hook. St. Fl. 122.

H. & S. 25.

Hist. Yarm.

Hist. Wher.

Top. Bot. Suff. E. and W.

Galp. 64.

Perennial herb ; frequent in woods and hedge-banks.

June to August.

Common in all the districts.

First record 1773. Sir J. Cullum.

G. intermedium, *Ehrh.*

Intermediate Avens.

Bab. Man. 125.

Hook. St. Fl. 122.

H. & S. 25.

Top. Bot.

Suff. W.

Herbaceous perennial ; in damp woods ; a supposed hybrid. June, July.

1. Stanton :—Bradfield St. Geo., *Mrs. Carss. & Hb. Ly.*

2. Cockfield ||, *Dr. Wood, C.B.* :—Hitcham, *H. & S.*

5. Bergholt, *Dr. White.*

First record 1860. Mrs. Carss.

G. rivale, Linn.*Water Avens.*

Bab. Man. 126. Hook. St. Fl. 122. H. & S. 25. Hist. Bury.
 Top. Bot. Suff. W. Galp. 65.

Herbaceous perennial, in moist woods ; form *flore-pleno*-
 at Gedding. June, July.

1. Fakenham Wood || :—Pakenham, *Hb. Cas.* :—Cul-
 ford Heath, *Gray* :—Lackford, *Hb. Ly.* :—Gedding ||, *J.*
Rasor :—Drinkstone, *F.* :—Woolpit Wood, *T.B.* :—Wether-
 den :—about Bury, *Sir. T. G. Cullum* :—Beyton, *Miss Steg-*
gall, Hb. Wils. :—Rushbrooke Glade, *Blackett* :—Bradfield
 St. George, *Mrs. Carss.*

2. Bull's Wood, Cockfield, *Dr. Wood, C.B.* :—Hitcham,
Prof. Hens. :—Sudbury, *J.S.H.* :—Hartwood, Thurlow, and
 Lit. Thurlow, *Hb. F.*

4. Stradbroke Rectory, *Galp.*

5. Baylham, *F. Fox* :—Bergholt, *H. & S.* :—Sprough-
 ton, *Haward.*

First notice 1773. Sir J. Cullum.

Rosa, Linn.**1. R. spinosissima, Linn.***Burnet Rose.*

Bab. Man. 126. Hook. St. Fl. 129. H. & S. 27. Hist. Yarm.
 Hist. Bury. Top. Bot. Suff. E. and W.

Small prickly shrub, perennial ; in sandy soil, especially
 near the sea-shore. May, June.

1. Market Weston || ; Barnham ; Norton, *Hb. Rk.* :—
 Cavenham Severals, *Sir. T. G. Cullum.*

2. Polstead.

3. Lowestoft and Fritton, *Sk. ms.* :—Pakefield, *G.*
Clowes in Hb. Geld. :—Hedge between Southtown and Burgh
 Castle, *A.B.* :—Reydon, *Hist. Southwold.*

4. Dunwich :—Thorpe, *Hele* :—Westleton, *Ms. Davy.*

5. Shrubland || :—Gt. Bealings, *Moor.*

Earliest notice 1775. Sir J. Cullum.

5. R. tomentosa, Sm.*Downy Rose.*

Bab. Man. 127. Hook. St. Fl. 130. H. & S. 27. Hist. Yarm.
 Top. Bot. Suff. E. and W. Galp. 66.

Prickly shrub, in hedges and woods ; frequent.

June, July.

Occurs in all the districts.

Var. *R. subglobosa*, Sm.

1. Market Weston, *E.F.L.* :—Felsham ||, *C.B.*
2. Nayland || :—Cockfield ||, *C.B.* :—Little Thurlow, *Hb. F.*
3. Wrentham, *M.L.H.* 4. Botesdale || ; Mellis.

Var. *R. scabriuscula*, Sm.

1. Ixworth Thorpe || ; Shelland :—Hardwick, *Hb. Sk.* :—Bury, *Sir J. E. Smith.*
 2. Lit. Thurlow, *Hb. F.* 4. Westleton ||.
- Earliest notice 1805. Woodward and D. Turner.

6. *R. rubiginosa*, Linn.

Sweet Briar.

Bab. Man. 127, 8. Hook. St. Fl. 131. H. & S. 27. Hist. Yarm.
Hist. Bury. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 66.

Prickly scented shrub ; in hedges and bushy places ; frequent in Suffolk (used to be planted to protect young white thorn hedges from sheep, *E.N.B.*) May to July.

Freely distributed in all the districts.

Earliest record 1773. Sir J. Cullum.

7. *R. micrantha*, Sm.

Small prickled Rose.

Bab. Man. 128. Hook. St. Fl. 131. Top. Bot. Suff. W. Galp. 66.

Prickly shrub, with faint perfume ; in hedges and bushy places. July, August.

1. Honington ; Timworth and Troston :—Market Weston, *Gray* ; Barton, *Sir C.J.F.B.*

2. Nayland || ; Hartest :—Polstead, *Gray* :—Wiston, *E.F.L.*

3. Hopton || ; Benacre || ; Worlingham :—St. Margarets, (*E.A.H*) *Galp.* :—Wrentham, *M.L.H.*

4. Badingham, *T.W.G.*

5. Shrubland.

Earliest notice 1855. T. W. Gissing.

9. *R. canina*, Linn.

Dog Rose.

Bab. Man. 128. Hook. St. Fl. 132. H. & S. 27. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. and W.

Prickly shrub ; very common in hedges and thickets.

June, July.

Very frequent in all the districts.

Form *R. lutetiana*, Leman. Normal *R. canina*, Woods.

1. Honington || ; Fakenham || : Thetford || ; Coney Weston ; Badwell Ash and Haughley || :—Barningham and Market Weston, *E.F.L.*

2. Long Melford ; Hartest :—Polstead, *Gray* :—Kersey, *E.F.L.*

3. Benacre ; Beccles :—Wrentham, *M.L.H.*

4. Mellis.

b. R. surculosa, Woods.

1. Honington.

2. Hitcham || ; Polstead || :—Wiston, *E.F.L.* :—Haverhill, *Hb. F.*

3. Beccles.

4. Mellis.

c. R. sphaerica, Gren.

1. Fakenham || ; Badwell Ash || ; Livermere & Haughley.

2. Polstead, *Gray* :—Kersey and Wiston, *E.F.L.*

3. Benacre :—Wrentham, *M.L.H.* 5. Alderton.

d. R. senticosa, Ach.

1. Badwell Ash.

2. Wiston ||, *E.F.L.*

5. Wrentham, *M.L.H.*

e. R. dumalis, Bech st.

1. Honington || ; Hinderclay || ; Fakenham || ; Ixworth Thorpe || ; Timworth ; Coney Weston and Badwell Ash :—Barningham and Market Weston, *E.F.L.* :—Stowlangtoft, *Hb. Rk.*

2. Long Melford ; Hartest and Polstead :—Nayland, *Gray* ;—Kersey, *E.F.L.*

3. Wrentham, *M.L.H.*

4. Redgrave Fen || ; Burgate and Mellis.

5. Claydon.

f. R. biserrata, Merat.

1. Ixworth Thorpe ||.

g. R. urbana, Leman.

1. Honington || ; Ixworth Thorpe and Badwell Ash :—Fakenham, *Hb. Cas.* ; Barningham and Market Weston, *E.F.L.*

2. Long Melford ; Hartest :—Polstead ||, *Gray* :—Kersey, *E.F.L.* :—ThurLOW, *Hb. F.*

3. Wrentham, *M.L.H.*

4. Burgate.

5. Needham Market.

h. *R. frondosa*, Steven.

1. Ixworth Thorpe ||.

2. Polstead and Wiston, *Gray*.3. Henstead || :—Wrentham, *M.L.H.* 4. Burgate.i. *R. arvatica*, Baker.1. Badwell Ash || and Ixworth Thorpe || ; Market
Weston, *E.F.L.*2. Nayland, *Gray* ; Wixoe.3. Wrentham, *M.L.H.* 4. Mellis.j. *R. dumetorum*, Thuill.

1. Coney Weston ||.

2. Wiston ||, *E.F.L.*k. *R. obtusifolia*, Desv. .

4. Burgate ||.

n. *R. tomentella*, Leman.1. Hinderclay || :—Barningham and Market Weston,
*E.F.L.*2. Polstead || and Wiston, *Gray* :—Nayland, *E.F.L.* :
—Hartest.3. A form with cohering styles, Wrentham, *M.L.H.*o. *R. andegavensis*, Bast.

2. Wiston. 3. Benacre ||.

p. *R. verticillacantha*, Merat.2. Nayland || and Wiston ||, *Gray*.3. Wrentham, *M.L.H.*u. *R. decipiens*, Dumort.

1. Honington.

2. Wiston ||, *E.F.L.*3. Wrentham, *M.L.H.*w. *R. subcristata*, Baker.

1. Ixworth Thorpe ||.

2. Polstead, *Gray*.*f. *R. marginata*, Wallr.1. Market Weston, *E.F.L.*

Earliest notice 1773. Sir J. Cullum.

R. stylosa, Desv.*Long-styled Rose.*

Hook. St. Fl. 135. Lond. Cat. 515.

Tallish prickly shrub ; in hedges ; not frequent.

June, July.

1. Langham ||.

*b. R. systyla, Bast.*1. Fakenham Wood :—Cavenham, *Sk. ms.*2. Cockfield, *Sk. ms.**c. R. leucochroa, Desv.*2. Polstead ||, *Gray.*

First notice 1862 ? E. Skepper.

11. R. arvensis, Huds.*Field Rose.*

Bab. Man. 129. Hook. St. Fl. 134. H. & S. 27. Hist. Yarm.

Hist. Wher. Top. Bot. Suff. E. and W. Galp. 66.

Trailing prickly shrub ; frequent in thickets and hedges.

June, July.

Distributed through all the districts. Proliferous monstrosity from Hitcham in *Hb. Hens.**c. R. bibracteata, Bast.*1. Honington || ; Fakenham and Wetherden :—Market Weston, *E.F.L.*2. Thurlow, *Hb. F.*

Earliest record 1773. Sir J. Cullum.

Cratægus.**1. C. Oxyacantha, Linn. Hawthorn. White Thorn.**

Bab. Man. 130. Hook. St. Fl. 137. H. & S. 28. Hist. Fram.

Top. Bot. Suff. E. and W. Galp. 67.

Small spinous tree ; in hedges, where it usually is planted ; on commons and in thickets, where it occasionally is 25 feet high.

May.

Common in all the districts.

*a. C. oxyacanthoides, Thuill.*1. Fakenham || ; Euston ; Ixworth Thorpe ; Stanton ; Hinderclay ; Risby ; Thetford ; Barton Mills and Mildenhall :—Hardwick, *Hb. Sk.* :—Tuddenham, *E. Sk.* :—Bury, *Hb. Ly.*

2. Stoke-by-Nayland :—Hitcham, *Prof. Hens.* :—Cockfield, *W. J.*

3. Gorleston.

4. Mellis.

5. Stutton and Walton :—Gt. Bealings, *Moor* :—Grundisburgh, *T. H.* :—Hemingstone, *T. B.*

b. C. monogyna, Jacq. (The more common form.)

1. Fakenham || ; Honington ; Ixworth Thorpe and Elveden :—Stowlangtoft *Hb. Rk.* :—Walsham, *Hb. Dun.* :—Bury, *Hb. Wils. & Hb. Ly.*

2. Wiston ; Nayland and Stoke.

4. Dunwich and Burgate ; Mellis.

5. Shrubland.

A form of this with clawed petals occurs at Wiston ||.

Earliest notice 1773. Sir J. Cullum.

Pyrus.

1. *P. communis*, Linn.

Wild Pear.

Bab. Man. 130. Hook. St. Fl. 135.

H. & S. 27.

Hist. Yarm.

Hist. Bury. Top. Bot. Suff. E. and W. Galp. 66.

Deciduous tree ; in hedges and woods ; not frequent.

April, May.

‘In the hedge on the right as you go straight from Nowton-lane into the Turnpike-road,’ *Sir J. Cullum* :—‘Bungay, *H. & S.*’

a. P. Pyraister, Bor.

Bab. Man. 130. Hook. St. Fl. 135.

1. Troston || ; Knettishall :—Stowlangtoft, *Hb. Rk.*

b. P. Achras, Bor.

Bab. Man. 130. Hook. St. Fl. 135.

1. Honington || ; Fakenham || and Knettishall :—Pakenham, *Hb. Cas.*

4. Sibton Abbey.

Earliest notice 1773. Sir J. Cullum.

2. *P. Malus*, Linn.

Crab Apple.

Bab. Man. 130. Hook. St. Fl. 136.

H. & S. 27.

Hist. Yarm.

Top. Bot. Suff. E. and W. Galp. 66.

Deciduous tree ; frequent in woods and hedges. May.

Occurs in all the districts.

a. *P. acerba*, DC.

Bab. Man. 130. Hook. St. Fl. 136.

1. Troston ||; Honington; Tuddenham and Mildenhall:—Pakenham, *Hb. Cas.*:—Woolpit, *Hb. Rk.*:—Onehouse:—Market Weston, *E.F.L.*:—Nowton, *Hb. Wils.*

2. Clare; Polstead and Stoke-by-Nayland.

3. Gorleston and Benacre.

4. Redgrave:—Gt. Glemham, *E.N.B.*

5. Stutton; Hollesley.

b. *P. mitis*, Wallr.

Bab. Man. 130. Hook. St. Fl. 136.

1. Troston ||; Honington; Onehouse and Tuddenham:—Walsham, *Hb. Dun.*:—Woolpit, *Hb. Rk.*:—Fornham, *Hb. Ly.*2. Clare:—Hitcham, *Hb. Hens.*:—Lit. Thurlow, *Hb. F.*

3. Gorleston and Benacre.

4. Redgrave and Sibton:—Friston, *Hele.*

5. Shrubland Park; Alderton.

Earliest notice 1773. Sir J. Cullum.

3. *P. Aucuparia*, Gart. *Rowan Tree, Mountain Ash.*

Bab. Man. 131. Hook. St. Fl. 136, 7. H. & S. 28. Hist. Yarm.

Top. Bot. Suff. E. and W.

Deciduous tree; in hilly woods; frequently planted.

May, June.

1. Honington ||; Livermere and Barton, cultivated.

2. Polstead:—Rede, *Hb. Turn.*3. Fritton:—Lound Wood, *Paget*:—near Benacre Broad, *Sk. ms.*:—Herringfleet, *H. G. Glasspoole in Hb. Geld.*5. Gt. Bealings, *Moor*:—Tunstall, *E.N.B.*:—Dodnash Wood, *I.S. Soc.*

Earliest notice 1773. Sir J. Cullum.

6. *P. Aria*, Sm.*White Beam Tree.*

Bab. Man. 131.

Hook. St. Fl. 136.

H. & S. 27.

Cyb. Br.

Supp.?

Small deciduous tree; on chalky soil; not frequent.

May.

1. Hardwick Heath (planted), *Hb. Sk.*2. Hitcham, *Hb. Hens.*3. Near Bungay, *Woodward.*4. Oakley, *Collins.*

Earliest record 1805. Woodward.

9. *P. torminalis*, *Sm.* *Wild Service Tree.*
 Bab. Man. 131. Hook. St. Fl. 136. H. & S. 28. Top. Bot.
 Suff. E. and W.
 Small deciduous tree; not frequent; in woods and
 hedges. April, May.
 Sp. from *Hb. Sir T. G. Cullum*, without locality, in
Hb. Sk.
 3. About Bungay, *H. & S.*
 4. Darsham, *Ms. Davy.* 5. Helmingham, *Ms. Davy.*
 Earliest notice 1805. *Davy.*

LYTHRACEÆ.

Lythrum, *Linn.*

1. *L. Salicaria*, *Linn.* *Purple Loosestrife.*
 Bab. Man. 132. Hook. St. Fl. 154. H. & S. 29. Hist. Fram.
 Top. Bot. Suff. E. and W. Hist. Wher. Galp. 69.
 Herbaceous perennial; on banks of rivers and ditches.
 Frequent in all the districts. July, August.
 Earliest notice 1773. *Sir J. Cullum.*
2. *L. Hyssopifolia*, *Linn.* *Hyssop-leaved Loosestrife.*
 Bab. Man. 132. Hook. St. Fl. 154. H. & S. 29. Cyb. Br.
 Supp. ? Hist. Bury.
 Annual, usually procumbent; in places where water
 has stagnated; very rare. July to September.
 1. East of Barton Mere, *Hbb. Sk., Cas. & Rk.; Sir T. G.*
Cullum.
 Earliest notice 1776. *Sir T. G. Cullum.*

Peplis, *Linn.*

1. *P. Portula*, *Linn.* *Water Purslane.*
 Bab. Man. 132. Hook. St. Fl. 155. H. & S. 29. Top. Bot.
 Suff. E. and W. Galp. 69.
 Small annual; on the edge of pools and streams.
 July to August.
 1. Troston ||, *Hb. Cas.* :—Thetford :—Icklingham, *Sir*
J. Cullum :—Tuddenham Heath, *H. & S.*
 3. Bungay, *H. & S.* :—North Denes, near the Light-
 house, Lowestoft, *Hb. Sk.* :—near Oulton Broad, *McAub.*

4. Burgate, *C. J. Ashfield*:—Walberswick, *Holmes*:—
 Snape, *H. & S.*

5. Ipswich Marshes, *Miller*.

Earliest record 1774. Sir J. Cullum.

TAMARISCACEÆ.

Tamarix, *Linn.*

*1. *T. gallica*, *Linn.*

T. anglica, *Webb.*

Common Tamarisk.

Bab. Man. 133. Hook. St. Fl. 70. H. & S. 15. Hist. Bury.
 Sea-side shrub; introduced. July.

3. Lowestoft; Kessingland and Southwold.

4. Sizewell, old shrub.

5. Aldeburgh; Woodbridge; Ipswich and Walton.

All the foregoing are of recent introduction. At Landguard
 Fort and Stutton ||, the shrubs are large and of considerable
 age; the former were planted by General Singleton.

Earliest record 1804. Sir T. G. Cullum.

ONAGRACEÆ.

Epilobium, *Linn.*

*1. *E. angustifolium*, *Linn.*

Rosebay.

Bab. Man. 133,4. Hook. St. Fl. 156.

Showy herbaceous perennial; in shady places. July.

1. Mildenhall, on a wall ||; Culford, on the roof of an
 outhouse, casuals; Troston Heath, where it has been planted.

3. Belton.

4. Wortham, *Collins*.

5. Gosbeck, *T. B.*:—Felixstowe, *H.M.S.*

Only recent records.

3. *E. hirsutum*, *Linn.*

Great Willow Herb.

Bab. Man. 134. Hook. St. Fl. 156. H. & S. 28. Hist. Fram.

Hist. Wher. Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 69.

Showy herbaceous perennial; by ditches and streams.

Very frequent in all the districts.

July, August.

First record 1773. Sir J. Cullum.

4. *E. parviflorum*, Schreb. *Small-flowered Willow Herb.*

Bab. Man. 134. Hook. St. Fl. 156. H. & S. 28. Hist. Fram.
Hist. Wher. Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 69.
Herbaceous perennial; in ditches and fens. July, Aug.
Frequent in all the districts.

Form *b.* *E. rivulare*, Wahl.

1. Haughley; Thetford Warren.
2. Melford ||; Nayland.
3. Beccles.
4. Redgrave Fen:—Mendham, *H.B.C.*

Form *c.* *E. intermedium*, Merat.

3. Beccles.
 4. Redgrave Fen ||.
- Earliest known record 1798. Rev. G. Crabbe.

5. *E. montanum*, Linn. *Broad Willow Herb.*

Bab. Man. 134. Hook. St. Fl. 156. H. & S. 28. Hist. Fram.
Hist. Wher. Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 69.
Herbaceous perennial; on dry banks. June, July.
Frequent in all the districts.

Earliest known record 1773. Sir J. Cullum.

8. *E. tetragonum*, Linn. *E. adnatum*, Griset.
Square Willow Herb.

Bab. Man. 135. Hook. St. Fl. 157. H. & S. 28. Hist. Yarm.
Top. Bot. Suff. E. and W.

Herbaceous perennial; in damp places. July, August.

1. Troston; Haughley:—Stowlangtoft *Hb. Rk.*:—Tud-denham, *Hb. Wils.*:—Barton, *Sir C.J.F.B.*
 2. Acton:—Hitcham, *Hb. Hens.*
 3. Kessingland:—near Bungay, *Woodward in With.*
 4. Dunwich ||:—Palgrave, *Collins.*
- Earliest notice 1773. Sir J. Cullum.

9. *E. obscurum*, Schreb. *Obscure Willow Herb.*

Bab. Man. 135. Hook. St. Fl. 157. (H. & S. 28. Top. Bot.
Suff. in *E. tetragonum*.) Galp. 127.

Herbaceous perennial; in wet places. July, August.

1. Fakenham; Ixworth Thorpe; Troston; Livermere; Barton Mills; Mildenhall:—Pakenham Fen, *Hb. Cas. & Sk.*:—Lakenheath, *G. C. Druce, Rec. Club*, 1883.
3. Hopton ||; Bungay; Lound; Kessingland; Beccles.

4. Stuston ; Dunwich :—Gt. Glemham, *E.N.B.*
Earliest notice 1833 ? Mrs. Casborne.

10. *E. palustre*, *Linn.* *Marsh Willow Herb.*
Bab. Man. 135. Hook. St. Fl. 157. H. & S. 28. Hist. Fram.
Hist. Wher. Hist. Yarm. Top. Bot. Suff. E. & W.
Herbaceous perennial ; in fens and marshes.

July, August.

In all the districts ; not infrequent.

Earliest notice 1773. Sir J. Cullum.

Ænothera, *Linn.*

- *1. *Æ. biennis*, *Linn.* *Biennial Evening Primrose.*
Bab. Man. 136. Hook. St. Fl. 159. H. & S. 28, 29. Galp. 69.
Biennial herb ; not indigenous ; tolerably frequent.
July to September.

1. Honington, a stray || :—Barton, *Hb. Blk.* :—between Moulton and Kentford, *Miss Bullender.*

2. Cockfield, *C.B.* :—Sudbury, *Fulcher.*

3. On the sandy cliff at Kirkley, *H. & S.* :—Oulton, *McAub.* :—Railway-banks at Homersfield, *Galp.*

5. Near Brightwell Chapel, *Moor* :—Sutton, *Rev. G. R. Leathes in Hb. Rk.* :—Woodbridge, *Sir J. E. Smith* :—Felixstowe, *Hb. Ly.*

Earliest notice 1824. Sir J. E. Smith.

Circæa, *Linn.*

1. *C. lutetiana*, *Linn.* *Enchanter's Nightshade.*
Bab. Man. 137. Hook. St. Fl. 159. H. & S. 29. Hist. Fram.
Hist. Wher. Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 69.
Herbaceous perennial ; in shady places. June to Aug.
Frequent in all the districts.
Earliest notice 1773. Sir J. Cullum.

HALORAGACEÆ.

Myriophyllum, *Linn.*

1. *M. verticillatum*, *Linn.* *Whorled Water Milfoil.*

Bab. Man. 137. Hook. St. Fl. 152. H. & S. 29. Hist. Yarm.
Hist. Bury. Top. Bot. Suff. E. and W. Galp. 68.

Aquatic perennial; frequent in ditches, July, August.

1. Ixworth Thorpe Carr ||; Barton Mills:—Bury, *Hb. Sk.*:—Mildenhall, *Sir C.J.F.B.*

2. Cockfield, *C.B.*:—Melford:—Hitcham, *Prof. Hens.*:—The Stour at Gt. Bradley, *Ray.*

3. Kessingland; Carlton Colville; St. Olave's Bridge:—Somerleyton, *Sk.ms.*:—Gorleston and Belton, *Paget.*:—Bradwell, *Wigg*:—Bungay, *Woodward*:—Herringfleet, *Trimmer*:—Blythford, *Ms. Davy.*

4. Wortham ||; Redgrave:—Syleham, *Holmes*:—Milderton and Wenhaston, *Davy*:—Mendham Marshes, *Galp.*

Form *M. pectinatum*, DC.

Bab. Man. 137. Hook. St. Fl. 152.

1. Ixworth Thorpe Carr ||.

Earliest notice 1696. *Ray.*

2. *M. Spicatum*, Linn.

Spiked Water Milfoil.

Bab. Man. 137. Hook. St. Fl. 152. H. & S. 29. Hist. Yarm.
Hist. Bury. Top. Bot. Suff. (including *H. alterniflorum*) E. and W.
Galp. 68.

Aquatic perennial; frequent in ponds, streams and ditches. June, July.

1. Ampton; Livermere; Bardwell; Knettishall; Thelnetham:—In the moat of the Old House, Little Saxham Hall, *Sir T. G. Cullum*:—Barton, *Hb. Blk.*:—Norton, *J. Rasor*:—Bury, & Felsham, *Sk.ms.*:—Mildenhall, *Sir C.J.F.B.*:—Lackford, *F.K.E. in Hb. Ly.*

2. Cockfield, *W.J.*:—Hitcham, *Prof. Hens.*:—Bradfield, *H. & S.*:—Canal at Lit. Thurlow, *Hb. F.*

3. Benacre; Kessingland; St. Olave's Bridge; Beccles; near Breydon Water:—Somerleyton, *Hb. Sk.*:—Oulton, *H. & S.*

4. Dunwich; Redgrave ||:—Mendham, *Galp.*

5. Walton ||; Bawdsey:—Otley, *E.N.B.*

Earliest notice 1804. *Sir T. G. Cullum.*

3. *M. alterniflorum*, DC.

Alternate flowered

Water Milfoil.

Bab. Man. 138. Hook. St. Fl. 152. Top. Bot. Suff. (under Sp. 2.)
E. and W.

Aquatic perennial ; in lakes and pools. May & June.

1. Market Weston Fen || ; Livermere and Ampton Lakes ||.

As no authorities are given in Top. Bot. Suff. ; it is doubtful whether the existence of this plant in Suffolk was ascertained before 1876. Hind.

Hippuris, Linn.

1. *H. vulgaris*, Linn.

Mare's tail.

Bab. Man. 138. Hook. St. Fl. 151.

H. & S. 29.

Hist. Fram.

Hist. Bury.

Top. Bot. Suff. E. and W.

Galp. 68.

Aquatic perennial ; in streams and ponds ; frequent.

June, July.

1. Thelnetham || ; Knettishall ; Euston ; Honington ; Sapiston ; Bardwell ; Ixworth Thorpe ; Lackford ; Barton Mills ; Lakenheath ; Tuddenham :—Mildenhall, *Hb. Blk.* :—Stowlangtoft, *Hb. Rk.* :—Culford, *Gray.* :—Norton, *J. Rasor* :—Fornham St. Genevieve, *H. & S.* :—Linkwood, Barton ; Ixworth and Santon Downham, *E. Sk.*

2. Nayland :—Cockfield and Clare, *W.J.* :—Melford Hall Mill, *H. & S.*

3. Bungay ; Beccles ; Kessingland and Benacre :—Herringfleet, *Trimmer* :—Somerleyton, *H. & S.*

4. Wortham and Oakley :—Framlingham, *Crabbe*.

5. Claydon :—Ashbocking, *F.C.S.* :—Hemingstone, *T.B.* :—Needham Market, *E. Clowes* :—Ipswich, *W.L.N.*

Earliest record 1773. Sir J. Cullum.

CUCURBITACEÆ.

Bryonia, Linn.

1. *B. dioica*, Linn.

Diaceous Red Bryony.

Bab. Man. 138.

Hook. St. Fl. 160.

H. & S. 30.

Hist. Fram.

Hist. Wher.

Top. Bot. Suff. E. and W.

Galp. 70.

Herbaceous perennial ; in hedges and thickets.

May to September.

1. Cavenham ; Tuddenham ; Barton Mills ; Mildenhall ; Lakenheath ; Brandon ; Elveden ; Risby ; Troston ; Ixworth ; Bardwell ; Honington ; Fakenham || ; Market

Weston; Thelnetham; Wattisfield; Onehouse and Bury:
—Barton, *Hb. Blk.*:—Pakenham and Stowlangtoft, *Hb. Cas.*:
—Walsham, *Hb. Dun.*

2. Long Melford; Polstead and Stoke-by-Nayland:—
Cockfield, *W.J.*:—Hitcham, *Hb. Hens.*:—Kersey, *E.F.L.*

3. Beccles; Bungay and Mettingham:—Flixton, *H.B.C.*

4. Stuston; Eye; Dunwich and Westleton:—Wortham
Green, *E. J. Ashfield*:—Gt. Glemham, *E.N.B.*:—Framling-
ham, *Crabbe.*

5. Orford; Sutton; Walton; Woolverstone; Shelly
and Stutton:—Coddensham, *F. Fox*:—Hemingstone, *T.B.*:
—Needham Market, *E. Clowes*:—Ipswich, *Ips. Portf.*:—
Wherstead, *Haward.*

Earliest record 1773. Sir J. Cullum.

PORTULACÆ.

Montia, Linn.

1. *M. fontana*, Linn. *Water Blinks.*

Bab. Man. 139. Hook. St. Fl. 69. H. & S. 30. Top. Bot.
Suff. E. and W.

Small annual; in wet or gravelly places. April to Aug.

a. M. minor, Gmel.

Bab. Man. 139. Hook. St. Fl. 69.

1. Sapiston Gravel-pit ||; Hopton; Fakenham; Tros-
ton; Barnham Heath; Honington; Tuddenham Heath ||:
—Woolpit, *Hb. F.*:—Mildenhall, *Sir C.J.F.B.*:—Cavenham,
E.N.B.

2. Cockfield Green, *Sk. ms.*

3. Lowestoft, *Hb. Sk.*:—St. Olave's Bridge, *Trimmer.*

4. Snape, *E.N.B.* 5. Felixstowe, *Hb. Blk.*

b. M. rivularis, Gmel.

Bab. Man. 139. Hook. St. Fl. 69.

1. Edge of ditch at Barnham.

Earliest record 1774. Sir J. Cullum.

Claytonia, Linn.

*1. *C. perfoliata*, Donn. *Perfoliate Claytonia.*

Bab. Man. 139. Hook. St. Fl. 70.

Annual, not indigenous, but rapidly establishing itself, especially where it is not kept down. April to June.

1. Honington ||; Fornham All Saints:—Stowmarket, *F. Fox*:—Coombs near Finborough, *Miss Pettiward, C.B.*:—Thurston, *J. Rasor*:—Rougham, *Sk. ms.*

3. Gorleston, *Hb. Sk. & H. G. Glasspoole, Phyt. & in Hb. Geld.*

Earliest notice 1859. H. G. Glasspoole.

PARONYCHIACEÆ.

Herniaria, Linn.

1. *H. glabra, Linn.* *Common Rupture Wort.*

Bab. Man. 140. Hook. St. Fl. 334. H. & S. 30. Hist. Bury. Top. Bot. Suff. E. and W.

A small annual or biennial; on gravelly soil; rare.

July.

1. 'Near the eighth milestone between Bury and Newmarket, on the right hand side of the road leading from Bury,' *Rev. R. Relhan*:—'Heath between Bury and Newmarket, about five miles from Bury on the right hand,' *Crabbe*:—'Fallow fields north of, and field east of chalk-bank, Risby Heath; also Cavenham and Icklingham, *A.B.*:—'Fallows near Barrow Bottom,' *Sir T. G. Cullum*:—Tuddenham, *W.J.*:—'Higham Green in several places,' *Sk. ms.*

3. Henham, *Davy*. Likely a mistake for Denham in district 1.

Earliest notice 1804. Sir T. G. Cullum.

CRASSULACEÆ.

Tillæa, Linn.

1. *T. muscosa, Linn.* *Mossy Tillæa.*

Bab. Man. 141. Hook. St. Fl. 145, 6. H. & S. 31. Hist. Yarm Hist. Bury. Top. Bot. Suff. E. and W. Galp. 67.

A tiny annual; on sandy heaths. June, July.

1. 'I gathered it near Woolpit; it is not uncommon on sandy heaths; I wonder therefore it is not in Hudson. Mr. Bryant, of Norwich, told me what the plant was; all the specimens I found were out of flower.' *Sir J. Cullum*:—Thetford Warren ||:—Tuddenham, *Hb. Sk.*:—West Stow,

Hb. Blk..—Lackford and Culford, *Dill Ray in Hort. Ox.* :—
Icklingham and Cavenham, *Sir T. G. Cullum* :—‘Mildenhall
and between Barton and Ixworth,’ *Sir C.J.F.B.* :—Brandon,
Sir. J. E. Smith—Barnham, *W.J.* :—Fornham All Saints
and Santon Downham, *E. Sk.*

3. Lowestoft || :—about Bungay, *Woodward* :—Herring-
fleet, *Trimmer* :—Lound Heath, *Paget* :—Holton, *H. & S.*
Gorleston and Belton, *Wigg* :—Corton, *Phyt*, 1862.

4. Westleton and Dunwich Heaths, and gravel walks
at Hoxne, *Ms. Davy* :—Snape, *E.N.B.*

5. ‘Tuesday, 15th June, 1773. I found this near Wood-
bridge,’ *Sir J. Cullum* :—Haslewood Common and Aldeburgh,
Crabbe :—Foxhall, *Trimmer* :—Nacton, *Sir T. G. Cullum* :—
Blaxhall, *E.N.B.*

Earliest notice 1773. *Sir. J. Cullum.*

Sedum, *Linn.*

2. *S. Telephium*, *Linn.* *S. purpurascens*, *Koch.* *Orpine Livelong.*

Bab. Man. 142. Hook. St. Fl. 147. H. & S. 31. Hist. Fram.
Hist. Yarm. Hist. Bury. Hist. Wher. Galp. 68. Top. Bot.
Suff. E. and W.

Succulent perennial ; on hedge banks and thickets.

June, July.

1. Bardwell ; Wetherden :—Pakenham, *Hb. Cas.* :—
Welnetham, *Hb. Sk.* :—Hawstead, *Sir J. Cullum* :—Woolpit,
J. Raser :—Nowton and Rougham, *Sir. T. G. Cullum.*

2. Gt. Waldingfield, *C.B.* :—Hitcham, *Hb. Hens.* :—
Polstead, *Sk. ms.*

3. Fritton || ; Bradwell :—Beccles :—Henham *W.J.* :—
Barnby ; Corton ; Flixton, *E. Sk.* :—South Cove, *Ms. Davy.*
:—Bungay, *Stock* :—Oulton, *McAub* :—Homersfield, *Galp* :—
Barsham, *R. E. Leach.*

4. Wenhaston, *W.J.* :—Framlingham, *Crabbe* :—Wey-
bread, *Galp* :—Hoxne Abbey, *E. S. Marshall.*

5. Wherstead, *Haward* :—Raydon, *Miller.*

Earliest notice 1773. *Sir J. Cullum.*

3. *S. Fabaria*, *Koch.* *Purple Orpine.*

Bab. Man. 142. Hook. St. Fl. 147.

Succulent perennial ; on rocks and in thickets.

August, September.

1. Cross Wood, Wattisfield ||. Found by Dr. Bird, September 17th, 1885.

3. Oulton, *McAub.*

4. Weybread, *H.B.C.*

Likely the same as 'Sedum Telephium purpureum, 7th August, 1773,' *Sir J. Cullum.*

5. *S. album*, *Linn.*

White Stonecrop.

Bab. Man. 142.

Hook. St. Fl. 147.

H. & S. 31.

Fl. Britt.

Succulent perennial; on old walls; (native on limestone rocks).

July, August.

1. Bury ||;—Southgate Street, Bury, *C.B. & Hb. Sk.*:—Tuddenham, *Rev. F. Tearle.*

Without locality, *Sir J. E. Smith.*

Earliest record 1800. *Sir J. E. Smith.*

6. *S. dasyphyllum*, *Linn.*

Thick-leaved Stonecrop.

Bab. Man. 142.

Hook. St. Fl. 148.

H. & S. 31.

Succulent perennial; on old walls and roofs; rare.

June, July.

1. Rickinghall Inferior ||; Troston Hall, on garden walls ||:—The Abbey walls, Bury, *Hbb. Cas., Rk., & Sk.*:—Drinkstone, *J. Rasor.*

Earliest notice 1837. *Mrs. Casborne.*

7. *S. anglicum*, *Huds.*

English Stonecrop.

Bab. Man. 142.

Hook. St. Fl. 147, 8.

H. & S. 31.

Hist. Yarm.

Top. Bot. Suff. E.

Succulent annual; native on rocks and sea-coast.

July, August.

3. Lowestoft ||; Benacre:—Hopton, *Phyt. 1862*:—Southwold, *Hb. Dun.*:—between Yarmouth and Dunwich, *Dill. Ray.*

4. Dunwich, *F. Spalding.*

5. Felixstowe and Aldeburgh:—Bawdsey Ferry, *W.L.N.*

Earliest notice 1724. *Dillenius.*

8. *S. acre*, *Linn.*

Wallpepper. Biting Stonecrop.

Bab. Man. 143.

Hook. St. Fl. 148.

H. & S. 31.

Hist. Fram.

Hist. Yarm.

Top. Bot. Suff. E. and W.

Galp. 68.

Succulent perennial; common on sandy soil, roofs and walls.

June, July.

Frequent in all the districts.

Earliest record 1773. Sir J. Cullum.

9. *S. reflexum*, Linn. *Reflexed Stonecrop.*

Bab. Man. 143. Hook. St. Fl. 149. H. & S. 31. Hist. Fram.

Galp. 127.

Succulent perennial; on chalk and old walls.

July, August.

1. Vine Fields, Bury ||, *Hb. Sk.*:—Eriswell, *E. Sk.*

3. Bungay, *H. & S.*:—Covehithe Church, *Hb. Sk.*

4. Walberswick, *Hb. Dun.*:—Framlingham, *Crabbe*:
—Stratford St. Andrews, *E.N.B.*

5. Bergholt, *H. & S.*

b. S. albescens, Haw.

Bab. Man. 143. Hook. St. Fl. 149.

1. Mildenhall ||, *Sir J. E. Smith, & Hbb. Blk. & Sk.*:—
Railway-cutting, Bury.

Earliest notice 1773. Sir J. Cullum.

Sempervivum, Linn.

1. *S. tectorum*, Linn. *Common Houseleek.*

Bab. Man. 143. Hook. St. Fl. 149. H. & S. 31. Hist. Fram.

Galp. 68.

Succulent perennial; on roofs, generally introduced.

July.

1. Bury; Fornham All Saints; Honington; Troston;
Thurston and Elmswell:—Barton, *Hb. Blk.*:—Walsham,
Hb. Dun.:—Woolpit, *F.*:—Icklingham and Thetford:—
Bradfield, *Hb. Ly.*

2. Nayland:—Cockfield, *W.J.*:—Hitcham, *Prof. Hens.*

4. Botesdale:—Framlingham, *Crabbe.*

5. Hemingstone, *T.B.*

Earliest notice 1779. Sir J. Cullum.

Cotyledon, Linn.

[1. *C. Umbilicus*, Linn. *Common Navelwort.*

Bab. Man. 144. Hook. St. Fl. 146.

Succulent perennial; on rocks and walls. June to Aug.

1. Honington, introduced accidentally with soil.

2. Bildeston, *F. Fox*: likely a casual.

4. Thorpe, *Hb. Hele*: likely a casual.]

RIBESEACEÆ.

Ribes, Linn.†1. *R. Grossularia*, Linn.

Gooseberry.

Bab. Man. 144. Hook. St. Fl. 144. H. & S. 32. Hist. Yarm.
Galp. 67.

Thorny shrub ; in thickets.

1. Fakenham || ; Euston ; Honington ; Bardwell and
Wattisfield :—Beyton, *Hb. Wils.* :—Stowlangtoft, *Hb. Rk.* :
—Horringer, *Hb. Ly.*

2. Cockfield, *W.J.* :—Hitcham, *Prof. H.* :—ThurLOW,
Hb. F.

3. Benacre :—Homersfield, *H.B.C.* :—Flixton, *Galp.*

4. Gt. Glemham, *E.N.B.*

5. Stutton and Shrubland :—Gt. Bealings, *Moor* :—
Bosmere, *Hb. Jeffes.*

Earliest notice 1773. Sir J. Cullum.

3. *R. nigrum*, Linn.

Black Currant.

Bab. Man. 144. Hook. St. Fl. 145. H. & S. 32. Hist. Yarm.
Galp. 67.

Shrub ; usually in moist places. April, May.

1. Sapiston || ; Troston :—Santon Downham ; Caven-
ham ; Mildenhall :—Pakenham, *C. Rose in Hb. Wils.* :—Co-
ney Weston, *Sk. ms.*

3. Near Flixton Village, *Galp.*

4. Gt. Glemham, *E.N.B.* :—Weybread, *H.B.C.*

Earliest notice 1775. Sir J. Cullum.

4. *R. rubrum*, Linn.

Red Currant.

Bab. Man. 144,5. Hook. St. Fl. 144. H. & S. 32. Hist. Yarm.
Galp. 67.

Shrub ; not infrequent in woods. April, May.

1. Fakenham || ; Ixworth Thorpe || ; Hinderclay :—
Pakenham, *C. Rose in Hb. Wils.* :—Cavenham Severals ; Ick-
lingham and Santon Downham, *E. Sk.* :—East of Hawstead,
E. S. Marshall.

2. Polstead and Wiston :—Cockfield, *W.J.* :—Hitcham,
Prof. Hens.

3. Fritton Decoy, *E. Sk.* :—Homersfield, *H.B.C.*

4. Burgate and Mellis :—Badingham, *T.W.G.* :—Wey-

bread Beck, *Galp.*

5. Shrubland :—Ashbocking, *F.C.S.* :—Bosmere, *Hb. Jeffes.*

Earliest notice 1774. Sir J. Cullum.

SAXIFRAGACEÆ.

Saxifraga, *Linn.*

12. *S. tridactylites*, *Linn.* *Rue-leaved Saxifrage.*

Bab. Man. 148. Hook. St. Fl. 141. H. & S. 32. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. and W. Galp. 67.

Small annual ; on sandy heaths and old walls.

April to June.

1. Thetford || ; Brandon ; Barnham Heath ; Fakenham ; Fornham All Saints ; Ixworth :—Bury, *Hb. Blk.* :—Barton, *Sir C.J.F.B.* :—Culford, *Gray* :—Risby and Tuddenham, *W.J.* :—Santon Downham, *Norgate.*

2. Nayland || ; Stoke and Clare :—Hitcham, *Prof. Hens.* :—Lavenham, *W.J.* :—Thurlow, *Hb. F.* :—Lidgate, *Rev. F. Tearle.*

3. Burgh Castle Walls, *Paget* :—Hobland, Bradwell, *H. G. Glasspoole in Hb. Geld.*

4. Gt. Glemham, *E.N.B.* :—Mendham, *H.B.C.*

5. Felixstowe || :—Wherstead, *Haward* :—St. Matthew's, Ipswich, *I.S. Soc.*

Earliest notice 1773. Sir J. Cullum.

13. *S. granulata*, *Linn.* *Meadow Saxifrage.*

Bab. Man. 148. Hook. St. Fl. 141. H. & S. 32. Hist. Wher.
Top. Bot. Suff. E. and W. Galp. 67.

Herbaceous perennial, with small tubers at the root.

May.

1. Honington || ; Fakenham ; Sapiston ; Euston ; Barnham and Brandon :—Barton, *Hb. Blk.* :—Bury, *Hb. Wils.* :—Stowlangtoft, *Hb. Rk.* :—Thurston, *Hb. Cas.* :—Walsham, *Hb. Dun.* :—Hawstead, *Sir J. Cullum* :—Woolpit, *Rk.* :—Sicklesmere, *W.J.* :—Mildenhall, *Townsend* :—Tostock, *Mrs. Terry.*

2. Cockfield Long-bog, *W.J.* :—Sudbury, *Fulcher* :—Melford, *J.F.W.*

3. Lowestoft, *E. Sk.*:—Homersfield, *Galp.*:—Bradwell, *J. Priest in Hb. Geld.*

4. Lit. Glemham, *E.N.B.*:—Metfield, *H. & S.*:—Stuston, *Collins*:—Hoxne, *Galp.*

5. Grundisburgh, *T.H.*:—Gt. Bealings, *Moor*:—Ipswich, *W.L.N.*:—Needham Market, *E. Clowes*:—Wherstead, *Haward*:—Tuddenham St. Martin, *E.N.B.*:—Sproughton, *I.S. Soc.*

Earliest record 1773. Sir J. Cullum.

Chrysoplenium, *Linn.*

1. *C. alternifolium*, *Linn.* *Alternate-leaved Golden Saxifrage.*

Bab. Man. 149. Hook. St. Fl. 142, 3. H. & S. 32, 33. Top. Bot. Suff. E. Hist. Wher. Galp. 67.

Small herbaceous perennial; on shady banks of streams. April.

2. Nayland ||, *Gray*:—Sudbury, *J.S.H.*

3. Bungay, *Stock*:—Mettingham and Shipmeadow, *H. & S. & R. E. Leach*:—Flixton, *Galp.*

4. Gt. Glemham ||, *E.N.B.*:—Weybread, near Needham Water-mill, *Jas. Turner.*

5. Creting, *Hb. Jeffes*:—Freston Wood, *W.L.N.*:—near Woodbridge, *Hb. Sk.*:—Brightwell, *H. & S.*:—Wherstead, *Haward.*

Earliest notice 1805. James Turner.

2. *C. oppositifolium*, *Linn.* *Opposite-leaved Golden Saxifrage.*

Bab. Man. 149. Hook. St. Fl. 143. H. & S. 32. Top. Bot. Suff. E. and W. Hist. Wher.

Small herbaceous perennial; near streams. April.

1. Stowmarket, *Sk. ms.*

2. Nayland ||; Polstead ||:—Hitcham, *Hb. Hens.*

3. Shipmeadow, *Hb. Sk.*:—Mettingham, *H. & S.*

4. Syleham, *Ms. Davy.*

5. Woolverstone:—Freston Wood & Ipswich, *W.L.N.*:—Brightwell, *H. & S.*:—Wherstead, *Haward*:—Ufford, *Ms. Davy*:—Dodnash Wood, *I.S. Soc.*:—Martlesham, *Hb. Ly.*

Earliest notice 1774. Sir J. Cullum.

Parnassia, Linn.

1. *P. palustris*, Linn. *Grass of Parnassus.*

Bab. Man. 149. Hook. St. Fl. 143. H. & S. 33. Hist. Yarm.
Hist. Bury. Top. Bot. Suff. E and W.

Herbaceous perennial; in damp and marshy soil.

August to October.

1. Ixworth Thorpe ||; Coney and Market Weston;
Thelnetham and Lakenheath:—Pakenham, *Herb. Cas.*:—
Stowlangtoft, *Hb. Rk.*:—Tuddenham Bog, *Hb. Sk.*:—West
Stow, *Hb. F.*:—Eriswell and Mildenhall, *Sir C.J.F.B.*:—
Hesset and Drinkstone, *Ger.*

2. Cornard Mere, *J.S.H.*:—Sudbury, *Fulcher*:—Long
Melford, *J.F.W.*

3. Gorleston, *Paget*:—North Cove, *Holmes*:—Oulton,
McAub.:—Benacre, *F. Spalding*:—Barnby; Herringfleet
and Somerleyton, *E. Sk.*

4. Redgrave, *Hb. Dun.*:—Hazlewood and Thorpe, *Hele*:
—Benhall, *E.N.B.*:—Edge of Westleton Moor, *F. Spalding*.

5. Aldeburgh, *T.B.*:—Chillesford, *H. & S.*

Earliest notice 1597. Gerarde.

UMBELLIFERÆ.

Hydrocotyle, Linn.

1. *H. vulgaris*, Linn. *Whiterot, Marsh Pennywort.*

Bab. Man. 155. Hook. St. Fl. 165. H. & S. 33. Hist. Yarm.
Top. Bot. Suff. E. and W. Galp. 70.

Creeping herbaceous perennial: frequent in swamps.

May to August.

Common in all the districts.

Earliest record 1773. Sir J. Cullum.

Sanicula, Linn.

1. *S. europæa*, Linn. *Wood Sanicle.*

Bab. Man. 155. Hook. St. Fl. 166. H. & S. 33. Hist. Fram.
Hist. Wher. Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 70.

Herbaceous perennial; frequent in woods. June, July.

Widely distributed in Suffolk.

Earliest record 1773. Sir J. Cullum.

Eryngium. Linn.

1. *E. maritimum*, Linn. Sea Holly.

Bab. Man. 156. Hook. St. Fl. 165. H. & S. 33. Hist. Yarm.

Top. Bot. Suff. E.

Herbaceous perennial; frequent on sea sands.

July, August.

3. Lowestoft, *Dr. Trimen*:—Kessingland; Benacre and Covehithe:—Southwold, *Hb. Rk.*

4. Dunwich, *Hb. Sk.*:—Thorpe, *E.N.B.*:—Sizewell, *W.J.*

5. Felixstowe:—Landguard Fort, *Ger*:—Bawdsey, *W.L.N.*:—Ramsholt, *Sir J. Cullum*:—Orford, *F. Spalding*:—Aldeburgh ||, *Hb. Cas.*

Earliest record 1597. Gerarde.

2. *E. campestre*, Linn. Field Eryngo.

Bab. Man. 156.

Hook. St. Fl. 165, 6.

H. & S. 33.

Top. Bot. Suff. E.

Herbaceous perennial; very rare.

July, August.

3. 'I found it on y^e coast of Suffolk, in y^e isle of Lovingland (Lothingland), but very sparingly,' *Hb. Budd. J. of B.*, xix, 55.

4. Formerly at the foot of the clay cliffs at Dunwich, 1855-56, now lost through the wasting of the cliffs, *E.N.B.*

Earliest record 1697. Buddle.

Cicuta, Linn.

1. *C. virosa*, Linn. Cowbane. Water Hemlock.

Bab. Man. 156.

Hook. St. Fl. 172.

H. & S. 34.

Hist. Bury.

Top. Bot. Suff. E. and W.

Herbaceous perennial; by rivers and streams; rare.

July, August.

1. Near Temple Bridge, Cavenham, *Sir T. G. Cullum*:—Lakenheath and Brandon, *E. Sk.*:—Tuddenham, *Rev. Hemsted.*

2. River at Wixoe, *F.*:—Kersey Mill, *H.S.*

3. 'Lovingland' ie Lothingland, *Ray*:—'In Waveney at Beccles, Mr. Crowe,' *Hb. Budd. & Dill. Ray in Hort. Ox.*:—'Banks of the Waveney between Beccles and St. Olave's; Oulton Broad; Oulton Dyke,' *Woodward*.—Bradwell, *Wigg*:—'side of Fritton Broad,' *D. Turner*:—Mutford Bridge ||, *Rev.*

G. R. Leathes in Hb. Blk.:—between Burgh and Belton,
Phyt. 1862.:—Herringfleet, *Trimmer.*

5. In the Gipping, near Ipswich, *W.L.N.*
Earliest record 1696. Ray.

Apium, Linn.

1. *A. graveolens*, Linn. *Celery, Smallage.*

Bab. Man. 156. Hook. St. Fl. 169. H. & S. 34. Hist. Fram.
Hist. Wher. Hist. Yarm. Top. Bot. Suff. E. Galp. 127.

Herbaceous perennial; frequent in marshes and ditches.
Mr. C. H. Watson unaccountably omits this plant from
West Suffolk in Top. Bot., and N.B.G. June to August.

1. Sapiston; Barningham; Hopton; West Stow;
Barton Mills:—on the river bank, Mildenhall, *Sir C.J.F.B.*:
—Pakenham, *Hb. Cas.*:—Nowton, *Hb. Wils.*:—Stowlang-
toft, *Hb. Rk.*:—Bury, *Sir J. Cullum*:—Tuddenham, *E. Sk.*:
—Fornham, *Hb. Sk.*

2. Hitcham, *Prof. Hens.*

3. Burgh Castle and St Olave's:—Bungay, *Stock*:—
Breydon Broad, *Phyt. 1862*:—Lowestoft, *E. Sk.*

4. Blythburgh:—Framlingham, *Crabbe*:—Snape, *E.N.B.*:
—Badingham, *T.W.G.*:—Yaxley || and Mellis.

5. Ipswich; Wherstead; Sutton; Orford; Bawdsey;
Stutton and Aldeburgh:—Barham, *T.B.*:—Gt. Bealings,
Moor:—Catawade, *F.F.L.*:—Orford, *E.N.B.*:—Melton, *F.*
Spalding:—Felixstowe, *W.J.*:—Wherstead, *Haward*:—Wood-
bridge, *Hb. Ly.*

Earliest record 1773. Sir J. Cullum.

2. *A. nodiflorum*, Reichb. *Procumbent Smallage.*

Bab. Man. 156, 7. Hook. St. Fl. 170. H. & S. 34. Hist. Fram.
Hist. Wher. Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 70.

Herbaceous perennial; in streams and ditches.

July, August.

Frequent in all the districts.

b. A. repens, Reichb.

Bab. Man. 157. Hook. St. Fl. 170.

1. Wangford ||; Cavenham; Thetford; Barnham and
Troston.

3. Lowestoft, *Hb. Blk.*:—Bradwell, *Paget*:—Bungay,
Stock:—Herringfleet, *ex Hb. G. Cooper in Hb. Geld.*

4. Redgrave :—Benhall Green, *E.N.B.*
Earliest record 1773. Sir J. Cullum.

3. *A. inundatum*, *Reichb.* *Floating Smallage.*
Bab. Man. 157. Hook. St. Fl. 170. H. & S. 34. Hist. Yarm.
Galp. 71. Top. Bot. Suff. E. and W.
Aquatic herbaceous perennial ; in pools. June, July.
1. Hopton || ; Thetford and near Barningham Park :—
Tostock, *J. Raser* :—Bury, *Sk. ms.* :—Mildenhall, *Sir C.J.F.B.*
2. Hitcham, *Hb. Hens.*
3. Benacre, *Hb. Sk.* :—Bungay, *Woodward.*
4. Walberswick, *Holmes* :—Wingfield, *Galp.*
Earliest record 1773. Sir J. Cullum.

Petroselinum, *Hoffm.*

- *1. *P. sativum*, *Hoffm.* *Carum Petroselinum*, *Benth.*
Common Parsley.

- Bab. Man. 157. Hook. St. Fl. 171. Hist. Yarm.
Herbaceous biennial ; in general reputation and use as
a garden herb ; frequently occurs as a stray. June to Aug.
1. Bury, *Hb. Wils.* :—Culford Heath, *Gray* :—Haug-
ley ||.
3. Gorleston and Belton, *Phyt. 1862.*
4. Framlingham Castle, *Haward.*
5. Felixstowe, an escape.
Earliest notice 1833. Hb. Wilson.

2. *P. segetum*, *Koch.* *Carum segetum*, *Benth.*
Corn Parsley.

- Bab. Man. 157. Hook. St. Fl. 171. H. & S. 34. Top. Bot.
Suff. E. and W.
Biennial herb ; on chalky soil and near the sea.
August, September.
1. Westley, *Hb. Sk.*
3. 'Mutford and Pakefield, 1860 ; hedge-bank on right
hand of footpath between Lowestoft and Mutford, about a
mile from Lowestoft, 1864,' *Sk. ms.*
5. Ashbocking, *F.C.S.*
Earliest notice 1860. E. Skepper.

Sison, *Linn.*

1. *S. Amomum*, *Linn.* Stonewort. Bastard Stone Parsley.

Bab. Man. 157. Hook. St. Fl. 172. H. & S. 34. Hist. Yarm.
Hist. Bury. Top. Bot. Suff. E. and W. Galp. 71.

Herbaceous biennial; edges of ditches; prefers chalky soil. August.

1. Fakenham ||; Honington; Sapiston; Ixworth Thorpe; Market Weston; Barton Mills; Harleston and Haughley:—Denham, *C.B.*:—Barton, *Hb. Blk.*:—Pakenham, *Hb. Cas.*:—Stowlangtoft, *Hb. Rk.*:—Nowton, *Hb. Wils.*:—Barningham, *E.F.L.*:—Bury and Hawstead, *Sir J. Cullum*:—Bradfield, *H. & S.*

2. Nayland and Wiston:—Cockfield, *C.B.*:—Hitcham, *Hb. Hens.*:—Kersey, *E.F.L.*:—Lit. Thurlow, *Hb. F.*

3. Henstead:—Pakefield, *Dr. Trimen*:—Gorleston, *Wigg*:—Bungay, *Stock*:—Lowestoft, *Sk. ms.*

4. Botesdale; Cookley; Yoxford and Peasenhall:—Mellis, *C. J. Ashfield*:—Gt. Glemham, *E.N.B.*

5. Stutton and Felixstowe:—Trimley, *Trimmer*:—Grundisburgh, *T.H.*:—Walton, *E. Sk.*

Earliest record 1773. Sir J. Cullum.

Ægopodium, *Linn.*

1. *Æ. Podagraria*, *Linn.* Gout-weed. Bishop-weed.

Bab. Man. 157, 8. Hook. St. Fl. 173. H. & S. 34. Hist. Fram.
Galp. 71. Top. Bot. Suff. E. and W. Hist. Wher.

Herbaceous perennial, with underground stolons.

June, July.

Common in all the districts.

Earliest record 1773. Sir J. Cullum.

[*Ammi majus*, *Linn.* A stray. 'Among Lucerne in a meadow adjoining Cockfield Rectory,' || Aug. 1876, *C.B. & W.J.* Dr. Babington.]

Carum, *Linn.*

- [1. *C. Carui*, *Linn.*

Caraway.

Bab. Man. 158. Hook. St. Fl. 171. H. & S. 34. Hist. Fram.
Hist. Bury.

Biennial herb, in great repute for its aromatic and carminative seeds; likely formerly cultivated in Suffolk, as in Essex, whence escapes occasionally occurred. June.

1. Westley Bottom ||, *Hb. Blk.*:—near Bury, *Mr. Cullum in Withg.*:—Hawstead, *Sir J. Cullum*:—in a meadow East of Newmarket Racecourse!

4. Framlingham, *Crabbe*.

5. Pastures about Bergholt, *H. & S.*

Earliest record 1773. *Sir J. Cullum.*]

2. *C. flexuosum*, *Fries.* *Conopodium denudatum*, *Koch.*
Earth Nut. Pig Nut.

Bab. Man. 158. Hook. St. Fl. 174. H. & S. 37. Hist. Fram.
Hist. Wher. Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 71.

Herbaceous perennial, with tuberous root. May, June.

Frequent in all the districts.

Earliest record 1784. *Sir J. Cullum.*

Pimpinella, *Linn*

1. *P. magna*, *Linn.* *P. major*, *Huds.*
Greater Burnet Saxifrage.

Bab. Man. 158. Hook. St. Fl. 174. H. & S. 35. Hist. Bury.
Top. Bot. Suff. E. and W.

Herbaceous perennial; in shady places. July, Aug.

1. Hawstead, *Sir J. Cullum & Hb. Sk.*:—Woods at Saxham, *Sir T. G. Cullum.*

2. Hitcham, *Hb. Hens.*:—Washdall Wood, Thurlow, *Hb. F.*:—Lidgate, *Rev. F. Tearle.*

3. Burgh Castle ||:—Pakefield, *Dr. Trimen*:—Bungay, *Stock.*

4. Botesdale and Burgate; between Burgate and Mellis.

Earliest record 1773. *Sir J. Cullum.*

2. *P. Saxifraga*, *Linn.* *Common Burnet Saxifrage.*

Bab. Man. 159. Hook. St. Fl. 174. H. & S. 35. Top. Bot.
Suff. E. and W. Galp. 71.

Herbaceous perennial; frequent in dry pastures.

July to September.

Distributed throughout the districts.

A form of this growing on banks at Mettingham and Stanton comes very near to *P. magna*.

Earliest record 1774. *Sir J. Cullum.*

Sium, *Linn.*

1. *S. latifolium*, *Linn.* *Broad-leaved Water Parsnip.*
 Bab. Man. 159. Hook. St. Fl. 173. H. & S. 35. Hist. Fram.
 Galp. 71. Top. Bot. Suff. E. and W.
 Herbaceous perennial; in streams and ditches. July, August.
 1. West Row; Mildenhall and Lakenheath:—Brandon,
H. & S.:—Norton, *J. Rasor.*
 3. Bungay, *Stock*:—‘in the larger ditches near the
 river at Beccles; at Worlingham, and at No Cove, *Crabbe &*
E. Sk.:—Marshes between Yarmouth and Burgh Castle,’
Wigg:—Belton, *J. T. Syme, Phyt. O.S.*, cxvii, 46.
 4. Wortham ||; Redgrave and Stuston:—near the
 Ferry, Walberswick, *Holmes*:—Framlingham, *Crabbe*:—
 Huntingfield, *Holland*:—Mendham, *Galp.*
 5. Gt. Bealings, *Moor.*
 Earliest record 1773. Sir J. Cullum.

2. *S. angustifolium*, *Linn.* *S. erectum*, *Huds.*
Narrow-leaved Water Parsnip.
 Bab. Man. 159. Hook. St. Fl. 178. H. & S. 35. Hist. Fram.
 Hist. Wher. Galp. 71. Hist. Yarm. Top. Bot. Suff. E. and W.
 Herbaceous perennial; in streams and ditches. Aug.
 Very frequent in all the districts.
 Earliest record 1773. Sir J. Cullum.

Bupleurum, *Linn.*

1. *B. tenuissimum*, *Linn.* *Slender Hare's-ear.*
 Bab. Man. 159. Hook. St. Fl. 168. H. & S. 35. Hist. Yarm.
 Top. Bot. Suff. E.
 Annual herb; usually found in salt marshes. August, September.
 3. ‘Gorleston, near the pier; and by the sides of
 Breydon Water,’ *Wigg*:—near Easton, *J.H.G.*
 4. Near the Ferry, Walberswick, *Holmes.*
 5. Bawdsey:—‘By the salt ditches in Aldeburgh Mar-
 shes; and plentifully near the river at Hollesley,’ *Crabbe*:—
 ‘Orford ||, near the river bank,’ *E.N.B.*:—Catawade, *E.F.L.*
 Earliest notice 1805. Rev. G. Crabbe, &c.

4. *B. rotundifolium*, Linn. *Thorough-wax.*

Bab. Man. 160. Hook. St. Fl. 168. H. & S. 35. Hist. Bury.

Top. Bot. Suff. W.

Annual herb; in chalky corn-fields.

July.

1. Hawstead, *Sir J. Cullum*:—Fields at Saxham, *Sir T. G. Cullum*:—Lakenheath, *H. & S.*2. Cockfield ||, *W.J.*:—Hitcham, *Prof. Hens.*4. Between Marlesford Common and Little Glemham, *Freeman.*Earliest record 1773. *Sir J. Cullum.**Œnanthe*, Linn.1. *Œ. fistulosa*, Linn. *Common Water Dropwort.*

Bab. Man. 160. Hook. St. Fl. 178, 9. H. & S. 35. Hist. Yarm.

Top. Bot. Suff. E. and W. Galp. 72.

Herbaceous perennial; frequent in marshes and ditches.

July to September.

1. Troston ||; Barnham; Livermere; Honington; Coney and Market Weston; Thelnetham:—Mildenhall Fen, *Hb. Blk.*:—Stowlangtoft, *Hbb. Dun. & Rk.*:—Tuddenham, *Hb. Wils.*:—Thetford, *W.J.*:—Bury, *Sir J. Cullum*:—Bradfield and West Stow, *E. Sk.*2. Hitcham, *Hb. Hens.*:—Nayland, *Gray*:—Long Melford, *J.F.W.*3. Bungay; Belton; Oulton; Kessingland; Benacre; Covehithe:—St. Olave's, *C.A.W.*:—Burgh Castle. *H. G. Glasspoole in Hb. Geld.*4. Mellis:—Finningham, *Hb. Cas.*:—Rendham, *E.N.B.*:—Wortham, *Collins.*5. Ashbocking, *F.C.S.*:—Needham Market, *E. Clowes*:—Ipswich, *W.L.N.*:—Falkenham, *Haward*:—near Bramford, *I.S. Soc.*Earliest record 1773. *Sir J. Cullum.*2. *Œ. pimpinelloides*, Linn. *Parsley Water Dropwort.*

Bab. Man. 160. Hook. St. Fl. 179. H. & S. 35. Hist. Yarm?

Herbaceous perennial; in fens and marshes.

June, July.

1. 'A mile west from Bury,' *Dill. Ray in Hort. Ox.*:—Tuddenham Bog ||, *Hbb. Blk. & Wils.*:—Lakenheath, *H. & S.*

3. Marshes near Oulton Dyke, *Hb. Sk.*

4. Leiston?, *Dary.*

Earliest record 1774. Sir J. Cullum.

3. *Æ. Lachenalii*, *Gmel.* Marsh Water Dropwort.

Bab. Man. 160. Hook. St. Fl. 179. H. & S. 35. Hist. Yarm.

as Sp 2. Top. Bot. Suff. E. and W.

Herbaceous perennial; in fens and marshes, especially near the sea. The authority and locality marked ? under last species, likely refer to this. August to September.

1. Thelnetham Fen:—Mildenhall, *H. & S.*:—Tuddenham, *Sk. ms.*

3. Kessingland; Easton Bavent; Benacre and Covehithe:—near Burgh Castle, *Phyt. 1863*:—Lowestoft, *Hb. Sk.*:—(Southwold ||, *Hb. Blk.* as *Æ. silaifolia*, *Bieb.*)

4. Redgrave Fen ||; Dunwich ||:—Snape and Sizewell, *H. & S.*

5. Aldeburgh; Bawdsey:—Catawade Marshes, *H. & S.*
Earliest record 1804. Sir T. G. Cullum.

4. *Æ. silaifolia*, *Bieb.?* *Æ. peucedanifolia*, *Pollich?*
Sulphurwort. Water Dropwort.

Bab. Man. 160, 1. Hist. Bury. Top. Bot. Suff. W. †

Herbaceous perennial; in marshes.

June.

1. *Æ. peucedanifolia*. 'In a large wet meadow near Westley Bottom, about a mile and a half from Bury,' *Sir T. G. Cullum*:—near Bury, *Matthews*. Both these authorities likely refer to the same locality; and not improbably point to the same station as the note from *Dill. Ray, &c.*, under (*E. pimpinelloides*). This latter is most likely the plant in question.

3. A plant in *Hb. Blk.* from Southwold, with the signature *L.E.*, marked *Æ. silaifolia*, *Bieb.?* is *Æ. Lacenalii*, *Gmel.*

5. *Æ. crocata*, *Linn.* Hemlock Water Dropwort.

Bab. Man. 161. Hook. St. Fl. 179. H. & S. 35. Top Bot. Suff. E.

Large herbaceous perennial; in marshes.

July.

This plant is absent from all local Herbaria examined; it has been searched for in vain by recent Suffolk botanists: it does not occur in Cambridge, nor in North Essex. The localities here given are open to serious doubt. It is not

improbable that bushy plants of Celery, *Apium graveolens*, may have been mistaken for it.

1. West Stow, *H. & S.*, on authority of Mr. Blackett.
5. Ipswich, *Ips. Fl.* :—Barham, *T.B.??*.

6. *Æ. Phellandrium*, *Lam.* *Horsebane.*
Fine-leaved Water Dropwort.

Bab. Man. 161. Hook. St. Fl. 179, 80. *H. & S.* 36. Hist. Yarm.
 Top. Bot. Suff. E. & W. Galp. 72.

Herbaceous biennial; in ponds and ditches.

July to September.

1. Barton Mere :—Langham, *Hb. Blk.* :—Stowlangtoft, *Hb. Rk.* :—Hawstead, *Sir J. Cullum* :—Welnetham and Felsham, *Sk. ms.* :—Onehouse and Wetherden :—Shelland and Stowmarket, *J. Rasor* :—Mildenhall and Lakenheath.

2. Wiston :—Cockfield, *C.B.* :—Hitcham, *Hb. Sk.* :—Kersey, *Gray* :—Whepstead, *E. S. Marshall*.

3. Corton ||; Beccles; St. Olave's; Kessingland :—Bungay, *Stock* :—Burgh Castle, *Paget* :—Belton, *Phyt.* 1862 :—Flixton; St. Margaret's, *Galp.*

4. Botesdale :—Framlingham, *Crabbe* :—Huntingfield, *Holland* :—Gt. Glemham, *H. & S.* :—Mendlesham, *Hb. Peck.*

5. Ashbocking, *E.F.S.*

Earliest record 1773. Sir J. Cullum.

7. *Æ. fluviatilis*, *Coleman.* *River Water Dropwort.*

Bab. Man. 161. Hook. St. Fl. 180. Top. Bot. Suff. E. Galp. 72.

Herbaceous perennial?; in rivers. July to Sep.

1. In the Upper || and Lesser Ouse throughout their course :—in the Lark; Mildenhall and Lakenheath.

2. In the Stour at Wixoe, *Hb. F.* :—Melford :—Whatfield, *E.F.L.* :—Sudbury, *C.B.*

3. Bungay; near Beccles :—Kessingland, *E.N.B.* :—Homersfield, *Galp.*

4. In the Upper Waveney :—in the Waveney, *H.B.C.* :—in the Blyth : Gt. Glemham, *E.N.B.*

5. In the Gipping.

Earliest record 1840. Mrs. French.

Æthusa, *Linn.*

1. *Æ. cynapium*, *Linn.* *Common Fool's Parsley.*

Bab. Man. 161. Hook. St. Fl. 180. H. & S. 36. Hist. Yarm.
 Top. Bot. Suff. Hist. Wher. Galp. 72.
 Annual weed ; in gardens and fields. July, August.
 Commonly distributed in all the districts.
 Earliest record 1773. Sir J. Cullum.

Fœniculum, Hoffm.

1. *F. officinale*, All. Common Fennel.

Bab. Man. 162. Hook. St. Fl. 177. H. & S. 36. Hist. Yarm.
 Top. Bot. Suff. E.

Large herbaceous perennial ; on banks, usually near
 the sea. July, August.

1. Ingham and Sapiston :—Bury, *Hb. Blk.* :—Ampton,
Sk. ms.

2. Stoke || :—Hadleigh, *F. Spalding* :—Clare Castle,
Hb. F.

3. Burgh Castle, Gorleston and Covehithe :—Bungay,
Stock :—Fritton, *Paget* :—Lowestoft, *Hb. Sk.*

4. Dunwich and Westleton :—Wenhaston, *W.J.* :—
 Yoxford, *H. & S.* :—Weybread, *H.B.C.* :—Wortham, *Collins.*

5. Felixstowe ; Orford ; Alderton ; Ipswich and Hol-
 brooke :—Claydon, *Hb. Wils.* :—Woodbridge, *Moor* :—Alde-
 burgh, *H. & S.*

Earliest record 1774. Sir J. Cullum.

Silaus, Besser.

1. *S. pratensis*, Besser. Sulphur Wort. *Pepper Saxifrage.*

Bab. Man. 162. Hook. St. Fl. 180. H. & S. 36. Top. Bot.
 Suff. E. and W. Galp. 73.

Herbaceous perennial ; in moist meadows. June to Sep.

1. Ixworth Thorpe || ; Sapiston ; Fakenham ; Liver-
 mere ; Ampton ; Wetherden and Haughley :—Barton, *Hb.*
Blk. :—Bury, *Hb. Wils.* :—Hardwick, *Hb. Sk.* :—Tostock,
Hb. Rk. :—Pakenham, *Hb. Cas.* :—Barningham, *E.F.L.*

2. Bildeston ; Melford and Nayland :—Cockfield, *W.J.* :—
 Hitcham, *Prof. Hens.* :—Rede, *Hb. Turn.*

3. Benacre & Mettingham :—Bungay, *Stock* :—Corton,
Phyt. 1862.

4. Burgate ; Mellis & Westleton :—Gt. Glemham, *E.N.B.* :

—Mendham, *Galp.* :—Benhall, *Mrs. Toller.*

5. Grundisburgh, *T.H.*

Earliest record 1831. *Mrs. Casborne.*

Crithmum, *Linn.*

1. *C. maritimum*, *Linn.*

Rock Samphire.

Bab. Man. 163. *Hook. St. Fl.* 178.

Herbaceous perennial; usually on sea cliffs. August.

3. On sands near Southwold Pier ||, *Holmes and Hist. Southwold.*

Earliest record 1839. *R. Wake.*

Angelica, *Linn.*

1. *A. silvestris*, *Linn.*

Wild Angelica.

Bab. Man. 163. *Hook. St. Fl.* 182.

H. & S. 36 *Hist. Fram.*

Hist. Yarm. *Hist. Wher.* *Galp.* 73. *Top. Bot. Suff. E. and W.*

Large herbaceous perennial; in marshy places.

July, August.

Frequent in all the districts.

Earliest record 1773. *Sir J. Cullum.*

Archangelica, *Hoffm.*

[*A. officinalis*, *Hoffm.*

Officinal Archangelica.

Bab. Man. 163. *Hook. St. Fl. App.* 531.

Herbaceous perennial; occasionally cultivated.

July to September.

1. 'Far from any Water, in a gravel-pit near the end of St. Edmund's, Bury, towards Sudbury,' *Merrett, 1805.*]

Peucedanum, *Linn.*

1. *P. palustre*, *Mænoch.* *Hog's Fennel.* *Milk Parsley.*

Bab. Man. 163.

Hook. St. Fl. 183.

Hist. Yarm.

Top. Bot.

Suff. E. and W.

Herbaceous perennial; in marshes and fens.

July, August.

1. Mildenhall, sparingly in fenny places, among reeds

and alders, especially in bogs in some of the plantations, *Sir C.J.F.B.* Sp. in Hb. Borrer, *A.B.*

3. Marshes at North Cove and Barnby, *Holmes* :—St. Olave's, *Phyt.* 1863 :—' Worlingham Common, by the side of the ditches, but sparingly,' *Crabbe* :—' on Belton Common; and at Blundeston,' *Wigg.* :—' Alder Carrs at Fritton,' *D. Turner & Hb. Sk.* :—Barnby Broad ||, *R. E. Leach.*

Earliest record 1800. *Wigg.*

Pastinaca, Linn.

1. *P. sativa*, Linn. *Peucedanum Sativum*, Benth. *Common Parsnip.*

Bab. Man. 163,4. Hook. St. Fl. 183. H. & S. 36. Hist. Fram.
Hist. Wher. Top. Bot. Suff. E. and W.

Herbaceous biennial; on chalky banks. July.

1. Fakenham ||; Bardwell; Stanton; Pakenham; Bury; Troston; Ampton; Culford; Timworth; Risby; Haughley; Higham; Cavenham; Barton Mills :—Barton, *Hb. Rk.* :—Hawstead, *Hb. Wils.* :—Stowlangtoft, *Hb. Rk.* :—Mildenhall, *Sir C.J.F.B.* :—Sicklesmere, *Hb. Ly.*

2. Wiston and Clare :—Cockfield, *W.J.* :—Nayland, *Gray* :—Hitcham, *Prof. Hens.* :—Sudbury, *J.S.H.*

3. Bungay, *Stock* :—Halesworth.

4. Mellis; Dunwich; Westleton; Walberswick :—Framlingham, *Crabbe.*

5. Ipswich; Walton; Shrubland Park; Felixstowe :—Ashbocking, *F.C.S.* :—Gt. Bealings, *Moor* :—Grundisburgh, *T.H.* :—Needham Market, *E. Clowes* :—Sudbourne, *E.N.B.* :—Wherstead, *Haward.*

Earliest record 1773. Sir J. Cullum.

Heracleum, Linn.

1. *H. Sphondylium*, Linn. *Hogsweed. Cow Parsnip.*

Bab. Man. 164. Hook. St. Fl. 184. H. & S. 36. Hist. Fram.
Hist. Yarm. Hist. Wher. Galp. 73. Top. Bot. Suff. E. and W.

Herbaceous perennial; frequent in hedge-banks. July.

4. A proliferous form from the neighbourhood of Gt. Glemham ||, *E.N.B.*

Common in all the districts.

Earliest record 1773. Sir J. Cullum.

Daucus, *Linn.*

1. *D. Carota*, *Linn.*

Carrot.

Bab. Man. 164. Hook. St. Fl. 184. H. & S. 37. Hist. Yarm.
Hist. Wher. Galp. 73. Top. Bot. Suff. E. and W.

Biennial herb ; very frequent in pastures and waysides.
May to August.

Common in all the districts. Abnormal form from St.
Peter's, Southelmham ||, *Holmes*.

Earliest record 1773. Sir J. Cullum.

Caucalis, *Hoffm.*

1. *C. daucoides*, *Linn.*

Small Hensfoot.

Bab. Man. 165. Hook. St. Fl. 185. H. & S. 37. Top. Bot.
Suff. E. ? and W.

Rare annual weed ; in corn-fields on a chalky soil.

June.

1. 'Dry places at Little Saxham, 4 miles N.W. of
Bury,' *Dill. Ray. in Hort. Ox.* :—Great Saxham, near Bury,
Hb. Sk., ex Hb. Sir T. G. Cullum :—Newmarket, *Winch* :—
Vine-fields, Bury, *Hb. Ly.*

5. Ipswich, *Ips. Fl.*

Earliest record 1773. Sir J. Cullum.

†2. *C. latifolia*, *Linn.*

Broad-leaved Hensfoot.

Bab. Man. 165. Hook. St. Fl. 185.

Annual weed ; on chalky soil, in corn-fields ; very rare.

July.

1. 'Wheat-fields at Little Saxham, Sir Jno. Cullum,'
Dill. Ray. in Hort. Ox. :—Newmarket, *Winch*.

Earliest record 1771. Sir J. Cullum.

Torilis, *Adans.*

1. *T. Anthriscus*, *Gært.*

Caucalis Anthriscus, *Huds.*

Upright Hedge Parsley.

Bab. Man. 165. Hook. St. Fl. 185, 6. H. & S. 37. Hist. Fram.
Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W.

Annual weed ; frequent in hedge-banks and thickets.

July, August.

Common in all the districts.

Earliest record 1774. Sir J. Cullum.

2. *T. infesta*, Spr.*Caucalis arvensis*, Huds.*Troublesome Hedge Parsley.*

Bab. Man. 165. Hook. St. Fl. 186. H. & S. 37. Hist. Fram.
 Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 73.

Annual weed ; chiefly in corn-fields. July, August.

1. Honington || ; Thetford ; Mildenhall :—Horringer,
Blackett :—Hardwick, *Hb. Sk.* :—Bury, *Hb. Wils.* :—Faken-
 ham, *Gray* :—Barton and Mildenhall, *Sir C.J.F.B.*

2. Wiston :—Hitcham, *Prof. Hens.* :—Kersey, *E.F.L.*

3. Burgh Castle ; Beccles and Kessingland :—Bungay,
Stock :—Bradwell, *Miss Bell* :—Lowestoft, *E. Sk.* :—St. Mar-
 garet's, (E.A.H.) *Galp.*

4. Peasenhall :—Gt. Glemham, *E.N.B.* :—Framling-
 ham, *Crabbe* :—near Weybread, *H.B.C.*

5. Claydon ; Bentley and Stutton :—Felixstowe, *W.H.*
Purchas.

Earliest record 1798. Rev. G. Crabbe.

3. *T. nodosa*, Gært.*Caucalis nodosa*, Scop.*Knotty Hedge Parsley.*

Bab. Man. 165.6. Hook. St. Fl. 186. H. & S. 37. Hist. Fram.
 Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W.

Annual weed ; on dry banks. July.

1. Barnham || ; Honington ; Ixworth Thorpe ; Bard-
 well ; Sapiston ; Mildenhall ; Lakenheath :—Barton, *Hb.*
Blk. :—Bury, *Hbb. Sk. & Wils.* :—Pakenham, *Hb. Cas.* :—
 Stowlangtoft, *Hb. Rk.* :—Ingham, *Gray* :—Fornham and
 Cavenham, *Sk. ms.*

2. Acton and Melford :—Hitcham, *Hb. Hens.* :—Cock-
 field, *W.J.*

3. Lowestoft, *E. Sk.* :—between Southtown and Burgh
 Castle, *A.B.*

4. Burgate, *C. J. Ashfield* :—Framlingham, *Crabbe* :—
 near Weybread, *H.B.C.*

5. Claydon ; Orford ; Bawdsey and Felixstowe :—
 Ramsholt, *Sir J. Cullum* :—Aldeburgh, *E.N.B.* :—Wherstead,
Haward.

Earliest record 1773. Sir J. Cullum.

Scandix, Linn.

1. *S. Pecten-Veneris*, Linn.*Shepherd's Needle.**Venus's Comb.*

Bab. Man. 166. Hook. St. Fl. 175. H. & S. 36. Hist. Fram.
 Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 71.
 Annual weed ; in corn and other fields. June to Sept.
 Frequent in all the districts.
 Earliest record 1773. Sir J. Cullum.

Chærophylloides Linn.

1. *C. silvestre*, Linn. *Anthriscus silvestris*, Hoffm. *Wild Chervil.*

Bab. Man. 166. Hook. St. Fl. 176. H. & S. 37. Hist. Fram.
 Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 72.
 Herbaceous perennial ; in hedges and thickets.
 April to June.

Common in all the districts.

Earliest record 1773. Sir J. Cullum.

[*C. sativum*, Lam. *Anthriscus Cerefolium*, Hoffm. *Garden Chervil.*

Bab. Man. 166. Hook. St. Fl. 176. Withg. 386. Galp. 72.
 Annual herb ; formerly in repute as a vegetable.
 May, June.

3. 'On a bank near Halesworth,' *Turner & Wigg in*
Withg. :—'Hedgebank between Halesworth and Wissett,' ||
Holmes. The plant still continues in the same locality, where
 it has flourished above ninety years.

Earliest notice 1797. Dawson Turner.]

2. *C. Anthriscus*, Lam. *Anthriscus vulgaris*, Pers. *Caucalis Anthriscus*, Huds. *Burr Chervil.*

Bab. Man. 166. Hook. St. Fl. 176. H. & S. 37. Hist. Yarm.
 Hist. Wher. Top. Bot. Suff. Galp. 72.
 Annual weed ; preferring a light soil ; on banks.

May, June.

1. Honington || ; Fakenham ; Euston ; Barnham ;
 Thetford ; Troston ; Brandon ; Fornham All Saints :—Ash-
 field, *Hb. Dun.* :—Bury, *Hb. Wils.* :—Pakenham, *Hb. Cas.* :
 —Mildenhall, *Hb. Blk.* :—Higham and Cavenham, *W.J.* :
 —Tuddenham, *E. Sk.*

2. Nayland ; Stoke and Clare :—Acton Sandpit, *C.B.* :
 Hitcham, *Hb. Hens.* :—Cockfield, *W.J.*

3. Burgh Castle and Belton :—Lowestoft, *E.F.L.* :—Flixton ; St. Margaret's, *Galp.*

4. Dunwich and Westleton :—Gt. Glemham, *E.N.B.* : Palgrave, *Collins.*

5. Claydon ; Needham Market and Walton :—Grundisburgh, *T.H.* :—Ipswich, *W.L.N.* :—Wherstead, *Haward.*

Earliest record 1800. Sir T. G. Cullum.

3. *C. temulum*, *Linn.*

Rough Chervil.

Bab. Man. 166,7. Hook. St. Fl. 175,6. H. & S. 37. Hist. Fram.
Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 71.

Herbaceous perennial ; in hedge-banks. June, July.

Frequent in all the districts.

Earliest record 1773. Sir J. Cullum.

Conium, *Linn.*

1. *C. maculatum*, *Linn.*

Hemlock.

Bab. Man. 167. Hook. St. Fl. 167. H. & S. 37. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. and W. Galp. 70.

Tall biennial herb ; in hedges and waste places.

June, July.

Frequent in all the districts.

Earliest record 1773. Sir J. Cullum.

Smyrniium, *Linn.*

1. *S. Olusatrum*, *Linn.*

Alexanders.

Bab. Man. 167,8. Hook. St. Fl. 167,8. H. & S. 37,8. Hist. Fram.
Hist. Yarm. Hist. Bury Top. Bot. Suff. E. and W. Galp. 70.

Large biennial herb ; on waste ground, and near ruins.

May, June.

1. Bardwell || ; Ixworth :—Chalk-pits, Bury, *C.B.* :—Norton, *Hb. Rk.* :—Pakenham, *Hb. Cas.* :—Thurston and Woolpit, *J. Rasor* :—Newmarket, *Don.*

2. Clare Castle :—Hadleigh, *H. & S.*

3. Kessingland :—about ruins of Hopton and other churches near Lowestoft ; Gunton and Corton, June 1881, *C.B.* :—Belton and Bradwell, *Phyt. 1862 & 3* :—Bungay, *Sir J. E. Smith* :—Pakefield, *E.F.L.* :—Homersfield, *H.B.C.* :—Flixton, *C.C. Bab.* :—Gorleston, *Miss Bell in Hb. Salm.* :—Lowestoft, *G. Clowes in Hb. Geld.*

4. Dunwich; Westleton and Eye:—Framlingham; Cransford and Glemham, *Crabbe*:—Theberton, *T.W.G.*:—Huntingfield, *Holland*:—Darsham, *Ms. Davy*.

5. Stutton and Alderton:—Aldeburgh, *Hb. F.*:—Barham, *T.B.*:—Grundisburgh, *T.H.*

Earliest record 1773. Sir J. Cullum.

Coriandrum, *Linn.*

[*C. sativum*, *Linn.*

Coriander.

Bab. Man. 168. Hook. St. Fl. 178. H. & S. 38. Hist. Fram.

Annual aromatic herb; formerly cultivated, causing occasional strays in corn-fields. June.

4. Among corn near Framlingham, *Crabbe*.

5. About Ipswich, *Sir J. F. Smith & Hudson*.

Earliest record 1762. Hudson.]

HEDERACEÆ.

Hedera, *Linn.*

1. *H. Helix*, *Linn.*

Common Ivy.

Bab. Man. 168. Hook. St. Fl. 186. H. & S. 38. Hist. Fram.

Top. Bot. Suff. E. and W. Galp. 73.

Climbing shrub; frequent on trees, rocks and walls.

October, November.

Common in all the districts.

Earliest record 1773. Sir J. Cullum.

CORNACEÆ.

Cornus, *Linn.*

1. *C. Sanguinea*, *Linn.*

Common Dogwood.

Bab. Man. 169. Hook. St. Fl. 187, 8. H. & S. 38. Hist. Fram.

Hist. Wher. Top. Bot. Suff. E. and W. Galp. 74.

Shrub; in woods and hedges.

June.

1. Honington; Fakenham; Bardwell; Market Weston; Risby; Stanton ||; Cavenham; Tuddenham:—Barton, *Hb. Blk.*:—Hardwick, *Hb. Wils.*:—Pakenham, *Hb. Cas.*:—

Stowlangtoft, *Hb. Rk.* :—Walsham, *Hb. Dan.* :—Mildenhall, *Sir C.J.F.B.* :—Coney Weston, *E.F.L.* :—Hawstead, *Hb. Ly.*

2. Melford; Bures to Stoke; Clare :—Hitcham, *Hb. Hens.* :—Cockfield, *W.J.* :—Kersey, *E.F.L.* :—Sudbury, *Fulcher* :—Hart Wood, Bradley, *Hb. F.*

3. Bungay; Bradwell; Belton; Kessingland and Benacre :—Flixton, *Galp* :—Reydon Wood, *Hist. Southwold.*

4. Burgate; Mellis; Stuston; Brome; Oakley; Darsham and Westleton :—Gt. Glemham, *F.N.B.* :—Framlingham, *Crabbe.*

5. Bentley; Shelley; Stutton; Shrubland :—Gt. Bealings, *Moor* :—Grundisburgh, *T.H.* :—Hemingstone, *T.B.* :—Ashbocking, *F. C. S.* :—Needham Market, *E. Clowes* :—Wherstead, *Haward* :—Ipswich, *Miller.*

Earliest record 1773. Sir J. Cullum.

LORANTHACEÆ.

Viscum, Linn.

1. *V. album, Linn.*

Common Mistletoe.

Bab. Man. 170. Hook. St. Fl. 190. H. & S. 38. Hist. Fram.
Top. Bot. Suff. E. and W. Galp. 99.

Perennial plant; parasitical on various trees.

March, April.

1. Hawstead, on Apple, *Hb. Wils.* :—Ickworth Park, *Hb. Sk.* :—Pakenham, *Hb. Cas.* :—Drinkstone.

2. Wickhambrook || :—Melford and Cockfield, *C.B.* :—Hitcham, *Hb. Hens.* :—Thurlow, *Hb. F.* :—Wiston, *Gray.*

3. Near Bungay, on Lime; at St. Margaret's, Southelmham, on Crab and Maple, *F. Spalding* :—Homersfield, *H.B.C.*

4. Framlingham, on Apple, *Crabbe*; on Poplar, *F. Spalding* :—Middleton, on Apple, *F. Spalding* :—Fressingfield, *Galp* :—Redgrave Park, *H. G. Glasspoole* :—Monk Soham, *T.W.G.* :—Framlingham and Hoxne, *Collins.*

5. Clopton and Helmingham, *Moor* :—Otley, *E.N.B.* :—Barham, *T.B.* :—Needham Market, *E. Clowes.*

Earliest record 1773. Sir J. Cullum.

CAPRIFOLIACEÆ.

Adoxa, Linn.

1. *A. Moschatellina*, Linn. *Tuberous Moschatel.*
 Bab. Man. 170,1. Hook. St. Fl. 190. H. & S. 39. Hist. Fram.
 Hist. Bury. Hist. Wher. Top. Bot. Suff. E. & W. Galp. 74.
 Herbaceous perennial ; in woods and on shady banks.
 April, May.
 Frequent in all the districts.
 Earliest record 1773. Sir J. Cullum.

Sambucus, Linn.

1. *S. Ebulus*, Linn. *Dwarf Elder.* *Danewort.*
 Bab. Man. 171. Hook. St. Fl. 189. H. & S. 39. Hist. Fram.
 Hist. Yarm. Top. Bot. Suff. E. and W.
 Small deciduous shrub ; on banks. August.
 1. Barrow and Langham ||, *Hb. Rk.* :—Pakenham,
Hb. Cas. :—Rougham, *Hb. Blk.*
 2. Brettenham and Boxford, *H. & S.* :—Sudbury, *J.S.H.*
 3. Brampton and Rumburgh, *Ms. Davy* :—Halesworth,
D. Turner :—Gorleston, *Wigg* :—near Lowestoft, *Downes* :—
 Somerleyton, *E. Sk.* :—Burgh Castle, *Phyt.* 1862.
 4. Burgate, *C. J. Ashfield* :—Framlingham and Par-
 ham, *Crabbe* :—Badingham, *Ms. Davy.*
 5. St. Clement's Church-yard, Ipswich, *M.M.* :—Hem-
 ingstone, *T.B.* :—Hintlesham, *H. & S.* :—Norwich Road, Ips-
 wich, *Haward* :—Whitton, *Miller.*
 Earliest record 1773. Sir J. Cullum.

2. *S. nigra*, Linn. *Common Elder.*
 Bab. Man. 171. Hook. St. Fl. 189,90. H. & S. 39. Hist. Fram.
 Hist. Yarm. Hist. Bury. Top. Bot. Suff. E. & W. Galp. 74.
 Large deciduous shrub ; in hedges and woods. June.
 Frequent in all the districts.
 Earliest record 1773. Sir J. Cullum.

Viburnum, Linn.

1. *V. Lantana*, Linn. *Mealy Guelder Rose.*
Wayfaring Tree.

Bab. Man. 171. Hook. St. Fl. 189. H. & S. 39. Top. Bot. Suff. W.

Deciduous shrub ; in woods and hedges. May.

1. Ixworth Thorpe ; Market Weston and Westley Wood :—Denham, *C.B.* :—Stanton, *Hb. Cas.* :—Hardwick, *Hbb. Sk. & Wils.* :—Ixworth, *W.J.* :—Moulton, *Rev. F. Tearle* :—Bury, *H. & S.*

2. Acton Wood, *C.B.* :—Chedburgh, *Miss Bell* :—Hit-cham, *Prof. Hens.* :—Thurlow, *F.*

3. Bungay, *Sir J. Cullum* :—Reydon Wood, *Hist. South-wold.*

5. Gosbeck, *T.B.* :—Barking, *Miller.*

Earliest record 1773. Sir J. Cullum.

2. *V. Opulus*, *Linn.* *Common Guelder Rose.*

Bab. Man. 171. Hook. St. Fl. 189. H. & S. 39. Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 74

Large shrub or small tree ; in woods and hedges.

June, July.

1. Honington || ; Fakenham ; Sapiston ; Ixworth Thorpe ; Hinderclay ; Tuddenham :—Bury, *Hb. Sk.* :—Now-ton, *Hb. Wils.* :—Pakenham, *Hb. Cas.* :—Felsham Wood, *W.J.* :—Mildenhall, *Sir C.J.F.B.* :—Fornham and Santon Downham, *Sk. ms.*

2. Wiston :—Cockfield, *C.B.* :—Lit. Bradley, *Hb. F.* :—Hitcham, *Hb. Hens.* :—Sudbury, *J.S.H.* :—Hadleigh, *F. Spalding* :—Rede, *Hb. Turn.*

3. Benacre and Bungay :—Flixton, *Galp.*

4. Redgrave ; Botesdale ; Mellis :—Dennington, *T.W.G.* :—Gt. Glemham, *E.N.B.* :—Huntingfield, *Holland* :—Thrandeston, *Collins.*

5. Blunt's Wood, Woodbridge, *Moor* :—Hemingstone, *T.B.* :—Needham Market, *E. Clowes* :—Wherstead, *Haward.*

Earliest record 1773. Sir J. Cullum.

Lonicera, *Linn.*

†1. *L. Caprifolium*, *Linn.* *Perfoliate Honeysuckle.*

Bab. Man. 171. Hook. St. Fl. 191. H. & S. 39. Galp. 74.

Climbing shrub ; in thickets ; rare. May, June.

1. Hawstead Vale, *H. & S.* :—Gazeley, *Rev. F. Tearle.* :—Honington ||, introduced.

2. Hitcham, *Hb. Hens.*
3. Bungay, *H. & S.*:—roadside between St. Margaret's and St. Peter's, *Galp.*
4. Weybread, *H.B.C.*:—near Needham Mill, *Suff. Galp.*
Earliest record 1856. Prof. Henslow.

2. *L. Periclymenum*, *Linn.* *Common Honeysuckle.*
Woodbine.

Bab. Man. 171, 2. Hook. St. Fl. 190, 1. H. & S. 39. Hist. Yarm.
Hist. Wher. Top. Bot. *Suff. E. and W.* *Galp.* 74.
Climbing shrub; in woods and hedges. June to Sep.
Common in all the districts.
Earliest record 1773. Sir J. Cullum.

[3. *L. Xylosteum*, *Linn.* *Upright Fly Honeysuckle.*

Bab. Man. 172. Hook. St. Fl. 191.
Shrub; a Suffolk specimen is preserved in the Herbarium of the late Mrs. French, there is no probability that it is a native of the county. May.

2. Walks, Lit. Thurlow ||, *Hb. F.*
Only notice 1840. ? Mrs. French.]

Symphoricarpos, *Dill.*

[*S. racemosus*, *Michx.* *Snowberry Tree.*

Shrub; planted in many shrubberies and gardens, from which strays occasionally escape. July to September.

1. Pakenham Wood; Hinderclay, in hedges ||.
2. Nayland, *Gray.* 3. Worlingham.
5. Hollesley.

Earliest record 1881. Rev. J. D. Gray.]

RUBIACEÆ.

Sherardia, *Linn.*

1. *S. arvensis*, *Linn.* *Field Madder.*

Bab. Man. 172. Hook. St. Fl. 195, 6. H. & S. 41. Hist. Yarm.
Top. Bot. *Suff. E. and W.* *Galp.* 76.

Prostrate annual; in fields and on hedge banks.
Frequent in all the districts. May to July.

Earliest record 1773. Sir Jno. Cullum.

Asperula, *Linn.*

1. *A. cynanchica*, *Linn.* *Quinsy-wort.*

Bab. Man. 172,3. Hook. St. Fl. 195. H. & S. 41. Hist. Bury.
Top. Bot. Suff. W.

Small perennial herb ; frequent on grassy commons and fields with a calcareous soil ; apparently confined to the N.W. district of the county ; from 2 to 15 inches in height.

June, July.

1. Chalk-pit, Barton Mills || ; Troston Heath || ; Culford Heath ; West Stow ; Brandon ; Elveden ; Eriswell :—Cavenham, *C.B. & Hb. Sk.* :—Tuddenham, *Hb. Wils.* :—Newmarket Heath, *Dill. Ray & Hb. Blk.* :—Mildenhall, *Sir C.J.F.B.* :—Bury, *H. & S.* :—Icklingham ; Dalham ; Barrow Bottom, and Risby Chalk-bank, *Sk. ms.*

Earliest record 1724. Dillenius.

2. *A. odorata*, *Linn.* *Woodruff.*

Bab. Man. 173. Hook. St. Fl. 195. H. & S. 40. Top. Bot. Suff. E. and W.

Fragrant herbaceous perennial ; in woods and on shady banks. May, June.

1. Market Weston || :—Hawstead, *Sir J. Cullum* :—Hardwick, *Hb. Wils.* :—Gazeley, *Rev. F. Tearle* :—Honington ||, likely introduced.

2. Hitcham, *Hb. Hens.* :—Woods, Stoke-by-Nayland and Polstead, *F. Spalding* :—Thrifty Wood, Lawshall, *Sk. ms.*

3. Chediston, *Trimmer.* 4. Burgate, *Collins.*

5. Needham Market, *E. Clowes* :—Barking Wood, *Miller.*

Earliest notice 1773. Sir J. Cullum.

Galium, *Linn.*

2. *G. Cruciata*, *Scop.* *Crosswort.*

Bab. Man. 173. Hook. St. Fl. 193. H. & S. 40. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. and W. Galp. 75.

Perennial herb ; in woods and hedges. May, June.

Tolerably frequent in all the districts.

Earliest record 1773. Sir J. Cullum.

3. *G. tricornis*, *With.* *Corn Bedstraw.*

Bab. Man. 174. Hook. St. Fl. 195. H. & S. 40. Hist. Bury.
Top. Bot. Suff. E. and W. Galp. 75.

Trailing annual ; in chalky corn-fields. June to Sep.

1. Cavenham || ; Wetherden :—Bury, *Hb. Sk.* :—Barton, *Sir C.J.F.B.* :—Hardwick, *H. & S.*

2. Cockfield ||, *C.B.* :—Hitcham, *Hb. Hens.* :—Gt. Thurlow, *Hb. F.* :—Lavenham, *Dr. White.*

3. Flixton, *H.B.C.* :—near Flixton Park, *Galp.*

4. Walberswick :—Badingham, *T.W.G.*

5. Claydon and Ipswich :—Grundisburgh, *T.H.*

Earliest record 1775. Sir J. Cullum.

4. *G. Aparine*, *Linn.*

Goosegrass. Cleavers.

Bab. Man. 174. Hook. St. Fl. 194.

H. & S. 40.

Hist. Yarm.

Top. Bot. Suff. E. and W.

Hist. Wher.

Galp. 75.

Trailing annual ; very frequent in hedges and thickets.

June to August.

Common in all the districts.

Earliest record 1773. Sir J. Cullum.

6. *G. anglicum*, *Huds.*

English Bedstraw.

Bab. Man. 174.

Hook. St. Fl. 195.

H. & S. 40.

Hist. Bury.

Top. Bot. Suff. W.

Small annual herb ; on old walls and sandy places.

June, July.

1. The Nunnery, Thetford || ; walls near Mildenhall Church || ; Brandon || ; Icklingham :—Wangford, *Rev. J. Hemsted* :—Barton Mills, *E. Forster, jun.* :—Vine-fields, Bury, *Hb. Sk.* :—Gt. Barton, *Sir C.J.F.B.* :—Cavenham, *W.J.* :—on heap of chalk by the roadside on Thetford Heath, *A.B.* There is no evidence of the plant having been found outside of district 1.

Earliest record 1776. Sir J. Cullum.

*7. *G. erectum*, *Huds.*

Upright Bedstraw.

Bab. Man. 174, 5. Hook. St. Fl. 194.

Herbaceous perennial ; on banks and pastures.

June, September.

1. Honington ||, accidentally introduced with grass seed in 1880 :—Mildenhall, *Hb. Blk.*

4 The Grove, Badingham, *T.W.G.*

5. Felixstowe.

Earliest notice 1840. Lady Blake.

**G. aristatum*, *Linn.*

Bearded Lady's Bedstraw.

Bab. Man. 175.

Don. iii. 651.

MM.

Germ. & Swiss Fl. 233.

Herbaceous perennial; a stray, likely introduced with seed. June, July.

1. In a meadow North of Newmarket Racecourse ||. As the plant has a whorl of eight leaves, it agrees more nearly with *G. aristatum* of Linnæus, than with that of Sir J. E. Smith, which has only six leaves.

First notice 1888. Hind.

8. *G. Mollugo*, Linn.

Hedge Bedstraw.

Bab. Man. 175. Hook. St. Fl. 194. H. & S. 40. Top. Bot. Suff. E. and W. Hist. Wher. Galp. 75.

Rampant herbaceous perennial; in hedges and thickets. July, August.

a. *G. elatum*, Thuill.

1. Ixworth; Langham; Onehouse; Harleston; Sheldland; Wetherden; Barton Mills and Westley Wood:—Stanton, *Hb. Blk.*:—Pakenham, *Hb. Cas.*:—Walsham, *Hb. Dun.*:—Barningham, *E.F.L.*:—Bury, *Sk. ms.*

2. Brettenham; Stoke; Nayland and Clare:—Hit-cham, *Hb. Hens.*:—Cockfield, *W.J.*

3. Benacre:—Flixton, *Galp.*

4. Cookley and Peasenhall:—Weybread, *Galp.*:—Gt. Glemham, *E.N.B.*

5. Felixstowe; Walton; Stutton ||; Stratford St. Mary; Shrubland:—Grundisburgh, *T.H.*:—Hemingstone, *T.B.*:—Needham Market, *E. Clowes*:—Bramford, *I.S. Soc.*

b. *G. insubricum*, Gaud.

Bab. Man. 175. Hook. St. Fl. 194.

1. Market Weston ||.

4. Sibton.

c. *G. Bakeri*, Syme.

Bab. Man. 175. Hook. St. Fl. 194.

3. Mettingham.

4. Between Yaxley and Scole ||.

5. Claydon ||.

Earliest record 1773. Sir J. Cullum.

9. *G. verum*, Linn.

Lady's Bedstraw.

Bab. Man. 175. Hook. St. Fl. 192, 3. H. & S. 40. Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 75.

Herbaceous perennial; in dry pastures and sandy places. July, August.

Frequent in all the districts.

Earliest record 1773. Sir J. Cullum.

10. *G. saxatile*, Linn. *Heath Bedstraw.*

Bab. Man. 175. Hook. St. Fl. 193. H. & S. 40. Hist. Yarm.

Top. Bot. Suff. E. and W. Hist. Wher. Galp. 75.

Small prostrate herbaceous perennial; on heaths.

July, August.

In all the districts, but more especially in the North-west.

Earliest record 1773. Sir J. Cullum.

12. *G. uliginosum*, Linn. *Rough Marsh Bedstraw.*

Bab. Man. 176. Hook. St. Fl. 193. H. & S. 40. Hist. Yarm.

Hist. Wher. Top. Bot. Suff. E. and W. Galp. 75.

Herbaceous perennial; in marshes and fens.

July, August.

1. Ixworth Thorpe ||; Honington; Euston; Market Weston; Thelnetham ||; Wangford; Lakenheath; West Stow:—Barton, *Hb. Blk.*:—Bury, *Hb. Sk.*:—Pakenham Fen, *Hbb. Cas. & Rk.*:—Mildenhall, *Sir C.J.F.B.*

2. Melford:—Hitcham, *Prof. Hens.*

3. Bungay, *Sk. ms.*:—Beccles; Carlton Colville:—St. Margaret's and St. Cross, *Galp.*:—St. Olave's, *C.A.W.*

4. Redgrave Fen ||:—Benhall, *E.N.B.*

5. Wherstead, *Haward.*

Earliest record 1773. Sir J. Cullum.

13. *G. palustre*, Linn. *Marsh Bedstraw.*

Bab. Man. 176. Hook. St. Fl. 193. H. & S. 40. Hist. Yarm.

Top. Bot. Suff. E. and W. Galp. 75.

Herbaceous perennial; ditches and streams. June, July.

Frequent in all the districts.

Form. *G. Witheringii*, Sm.

Bab. Man. 176. Hook. St. Fl. 193.

1. Market Weston ||; Hopton; Sapiston; Thelnetham; Onehouse.

2. Nayland, *Hb. Gray.*

4. Burgate ||; Dunwich; Westleton.

5. Bawdsey.

Form. *G. elongatum*, Prest.

Bab. Man. 176. Hook. St. Fl. 193.

1. Bardwell.

Earliest record 1773. Sir J. Cullum.

VALERIANACEÆ.

Centranthus, *Cand.**1. *C. ruber*, *DC.* *Red Valerian.*

Bab. Man. 177. Hook. St. Fl. 197. H. & S. 41.

Herbaceous perennial ; in chalk-pits or on old walls.

June to September.

1. Thetford ; Fornham All Saints ; cottage garden walls, &c., Honington, established but introduced :—Walls of Rushbrooke Hall, *H. & S.*

Earliest record 1860. Henslow and Skepper.

Valeriana. *Linn.*1. *V. officinalis*, *Linn.* *V. Mikanii*, Wats.

Officinal Valerian.

Bab. Man. 177. Hook. St. Fl. 197. H. & S. 41. Hist. Fram.

Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 76.

Herbaceous perennial ; in ditches and marshes.

June, July.

Frequent in all the districts.

b. V. sambucifolia, *Mikan.*

Bab. Man. 177. Hook. St. Fl. 197.

1. Ixworth Thorpe Carr ||.

2. Melford :—Nayland, *Hb. Gray.*

3. Lound ; Beccles.

4. Burgate || ; Eye ; Oakley and Mellis.

5. Needham Market :—Bosmere, *Hb. Jeffes.*

Earliest record 1773. Sir J. Cullum.

3. *V. dioica*, *Linn.* *Marsh Valerian.*

Bab. Man. 177, 8. Hook. St. Fl. 196. H. & S. 41. Hist. Fram.

Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 76.

Herbaceous dioecious perennial ; in fens and marshes.

May, June.

1. Ixworth Thorpe Carr || ; Brandon ; Bury ; Market Weston ; Hinderclay and Thelnetham Fens :—Bardwell, *Hb. Blk.* :—Pakenham, *Hb. Cas.* :—Stowlangtoft, *Hb. Rk.* :—Mildenhall, *Sir. C.J.F.B.* :—Tuddenham Bog, *W.J.*

2. Polstead Marsh||; Nayland :—Hitcham, *Hb. Hens.* :
—Cockfield, *W.J.* :—Gt. Wratting and Gt. Bradley, *Hb. F.* :
—Oulton, *McAub.*

3. Belton, *Paget* :—Oulton, *E.N.B.* :—Flixton, *Galp.*

4. Redgrave Fen :—Weybread, *H.B.C.* :—Gt Glemham and Benhall, *E. Sk.* :—Framlingham, in the Mere, *Crabbe* :—Mendham, *Galp.*

5. Gt. Bealings, *Moor* :—Grundisburgh, *T.H.* :—Needham Market, *E. Clowes.*

Earliest record 1773. Sir J. Cullum.

Valerianella, *Mœnch.*

1. *V. olitoria*, *Mœnch.* *Lamb's Lettuce.*

Bab. Man. 178. Hook. St. Fl. 197, 8. H. & S. 41. Hist. Fram.
Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 76.

Annual herb; on denes near the sea; and on banks and fields inland. May, June.

Frequent in all the districts.

Earliest record 1774. Sir J. Cullum.

†2. *V. carinata*, *Loisel.* *Keeled Corn Salad.*

Bab. Man. 178. Hook. St. Fl. 198.

Annual herb; in cultivated fields, likely introduced with the crops; rare. April to June.

1. West of Saxham Station, *E. S. Marshall.*

2. Nayland || :—Hadleigh, *F. Spalding.*

3. Bungay, *F. Spalding.* 5. Grundisburgh, *T.H.*

Earliest notice 1882. Rev. T. Hedley.

4. *V. dentata*, *Deitr.* *Toothed Corn Salad.*

Bab. Man. 178, 9. Hook. St. Fl. 198. H. & S. 41. Hist. Yarm.
Top. Bot. Suff. E. and W. Galp. 76.

Annual herb; in cultivated fields and on banks.

June, July.

1. Ixworth Thorpe||; Wetherden|| :—Culford, *Hb. Blk.* :
—Hessett, *Hb. Wils.* :—Tuddenham, *Hb. Sk.*

2. Hitcham, *Hb. Hens.*

3. Halesworth, *Sir J. E. Smith* :—Bradwell and Gorleston, *Wigg* :—Easton, near Southwold, *Holmes* :—Bungay, *H. & S.* :—St. Margaret's (E.A.H.), *Galp.*

4. Weybread, *H.B.C.* :—Thorpe, *Sk.ms.*
5. Between Felixstowe and Landguard Fort, *H. & S.*
- b. V. mixta*, Duxe.

Hook. St. Fl. 198.

3. Halesworth, *Sir J. E. Smith*, 1824.

5. Felixstowe, *W.L.N.*

Earliest record 1816. Wigg.

DIPSACEÆ.

Dipsacus, *Linn.*

1. *D. silvestris*, *Linn.* *Wild Teasel.*

Bab. Man. 179. Hook. St. Fl. 199. H. & S. 41. Hist. Yarm.
Top. Bot. Suff. E. and W. Galp. 76.

Tall biennial ; in hedges and borders of fields.

August, September.

1. Honington ; Ixworth Thorpe ; Stanton || ; Thurston :—Barton, *Sir C.J.F.B.* :—Bury, *Hb. Sk.* :—Pakenham, *Hbb. Cas. & Rk.* :—Hawstead, *Sir J. Cullum* :—Walsham, *Hb. Dun.* :—Thelnetham, *J.S.S.*

2. Bildeston and Melford ; Wixoe :—Hitcham, *Hb. Hens.* :—Cockfield, *W.J.* :—Depden, *Moor* :—Nayland, *Gray* :—Kersey, *E.F.L.* :—Aldham, *F.Spalding* :—Stanstead, *Hb. Ly.*

3. Willingham, *W. M. Crowfoot* :—Oulton, *E. Sk.* :—Beccles.

4. Oakley ; Westleton and Saxmundham :—Gt. Glemham, *F.N.B.*

5. Sutton :—Gt. Bealings, *Moor* :—Hemingstone, *T.B.* :—Ashbocking, *F.C.S.* :—Whitton, *Miller* :—Belstead, *I.S. Soc.* :—Wherstead, *Haward* :—Felixstowe, *W. H. Purchas.*

Earliest record 1773. Sir J. Cullum.

2. *D. pilosus*, *Linn.* *Shepherd's Rod.*

Bab. Man. 179, 80. Hook. St. Fl. 199. * H. & S. 42. Hist. Fram.
Top. Bot. Suff. E. and W. Galp. 76.

Tall biennial ; in moist shady places.

August.

1. Ixworth Thorpe || ; Honington ; Sapiston :—Barton, *Hb. Blk.* :—Pakenham, *Hb. Cas.* :—Stowlangtoft, *Hb. Rk.* :—Hardwick, *Hb. Sk.* :—Bury and Hawstead, *Sir J. Cullum* :—Horringer, *Dr. Bromfield* :—Woolpit, *Mrs. Parker* :—Ashfield and Felsham, *Sk.ms.* :—Hepworth, *Hb. Salm.*

2. Melford :—Cockfield ; Lavenham Road by Brettenham Park and Nayland, *C.B.* :—Hitcham, *Hb. Hens.* :—Kersey, *Gray* :—Aldham, *F. Spalding* :—Lit. Thurlow, *Hb. Cas.* :—Brent Eleigh, *Hb. Ly.*

3. Bungay, *Stock* :—St. Margaret's, Southelmham *Holmes* :—Lowestoft, *Dr. Trimen* :—Beccles and Halesworth, *D. Turner* :—Chediston, *Trimmer*.

4. Wortham, *C. J. Ashfield* :—Gt. Glemham and Benhall, *E.N.B.* :—frequent in hedges about Farnham ; Rendham ; in the road to Bruisyard and Framlingham, *Crabbe* :—Weybread and Syleham, *H.B.C.* :—Badingham, *T.W.G.* :—Wickham Skeith, *Sk. ms.* :—Yoxford, *Ms. Davy* :—Ubbeston, *Mrs. Toller*.

5. Campsey Ash and Stonham Parva, *Trimmer* :—Gt. Bealings, *Moor* :—Crowfield, *T.B.* :—Wherstead, *Haward* :—Needham Market, *Miller*.

Earliest record 1773. Sir J. Cullum.

Knautia, Coulter.

1. *K. arvensis*, *Coulter*. *Scabiosa arvensis*, Linn.
Field Scabious.

Bab. Man. 180. Hook. St. Fl. 200. H. & S. 42. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. and W. Galp. 77.

Herbaceous perennial ; in fields and waysides.

July to September.

Frequent in all the districts.

Earliest record 1773. Sir J. Cullum.

Scabiosa, Linn.

1. *S. succisa*, *Linn.* *Devil's-bit Scabious.*

Bab. Man. 180. Hook. St. Fl. 200. H. & S. 42. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. and W. Galp. 77.

Perennial herb ; in marshy pastures and fens.

July to October.

Frequent in all the districts.

Earliest record 1773. Sir J. Cullum.

2. *S. Columbaria*, *Linn.* *Small Scabious.*

Bab. Man. 180. Hook. St. Fl. 200. H. & S. 42. Top. Bot.
Suff. E. & W.

Herbaceous perennial ; usually on chalky soil.

July, August.

1. Troston || ; Barnham ; Timworth ; Culford Heath ; Elveden ; Euston ; Fakenham ; Bardwell ; Honington ; Thurston ; Market Weston ; Risby ; Cavenham ; Barton Mills ; Eriswell ; Lakenheath ; Wangford :—Barton, *Hb. Blk.* :—Bury, *Hbb. Sk. & Wils.* :—Mildenhall, *Sir C.J.F.B.* :—Saxham ; Barrow, *Sk. ms.* :—Icklingham, *C.B.* :—Herringswell, *Rev. F. Tearle* :—Small Heath, near Risby, *E. S. Marshall* :—Lackford, *Rev. P. Lathbury*.

2. Acton Sand-pit, *C.B.* :—Hadleigh, *Dr. White*.

3. Bungay, *Stock* :—Henham, *Hb. Dun.*—Lowestoft, *Sk. ms.*

4. Stuston Common, *Collins*.

5. Claydon :—Gt. Bealings, *Moor* :—Blakenham, *Harward* :—Ipswich, *Miller*.

Earliest record 1773. Sir J. Cullum.

COMPOSITÆ.

Eupatorium, *Linn.*

1. *E. cannabinum*, *Linn.* *Hemp Agrimony.*

Bab. Man. 187. Hook. St. Fl. 203. H. & S. 42. Hist. Fram.
Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. & W. Galp. 77.

Large herbaceous perennial ; sides of wet ditches and streams. August, September.

Frequent in all the districts.

Earliest record 1773. Sir J. Cullum.

Petasites, *Gært.*

1. *P. vulgaris*, *Desf.* *Butter-bur.*

Bab. Man. 187. Hook. St. Fl. 216. H. & S. 42. Hist. Yarm.
Top. Bot. Suff. E. and W. Galp. 79.

Herbaceous perennial ; in moist places beside rivers and streams. April.

Frequent in all the districts.

Earliest record 1773. Sir J. Cullum.

[*P. fragrans*, *Prest.* *Fragrant Butter-bur.*

Bab. Man. 188. Hook. St. Fl. App. 532.

Herbaceous perennial; an escape from cultivation; freely spreading on banks near shrubberies. February.

1. Stowlangtoft:—Bury, *Hb. Sk.*
2. Wiston; an escape from the Rectory grounds.
3. Mettingham; St. Peter's, Southelmham ||, in great profusion for upwards of twenty years, *Holmes*:—Beccles.
4. Yoxford.

Earliest notice 1862. E. Skepper.]

Tussilago, *Linn.*

1. *T. Farfara*, *Linn.* *Coltsfoot.*

Bab. Man. 188. Hook. St. Fl. 217. H. & S. 42. Hist. Yarm.

Top. Bot. Suff. E. and W. Galp. 79.

Herbaceous perennial; in fields, preferring clay soil.

March, April.

Common in all the districts.

Earliest notice 1773. Sir J. Cullum.

Aster, *Linn.*

1. *A. Tripolium*, *Linn.* *Sea Starwort.*

Bab. Man. 188. Hook. St. Fl. 204. H. & S. 42. Top. Bot.

Suff. E. Hist. Wher.

Herbaceous perennial; on the muddy sea-shore.

August, September.

Very frequent on all the muddy parts of the sea-coast, and in all the estuaries and tidal rivers from Burgh Castle on the Waveney to Catawade on the Stour.

Earliest record 1831. Mrs. Casborne.

[*A. Novi Belgii*, *Linn.* Garden escapes of this Aster have been found on the bank of the Minsmere at Peasenhall, and on the edge of a pond near Gorleston. This, or a closely-allied species, has been long established on a dry patch of Redgrave Fen. Mr. C. J. Ashfield (*see Phyt.* 1861, p. 323, and 1862, p. 321.) says that it has been there as far back as 1846. Re-discovered Aug 5th, 1884.

Earliest record 1846. C. J. Ashfield.]

Erigeron, *Linn.*

- *1. *E. canadensis*, *Linn.* *Canadian Fleabane.*

Bab. Man. 188. Hook. St. Fl. 205.

A foreign annual, which has become naturalized in the light soil of the North-west district of the county.

August, September.

1. Brandon ||; Mildenhall ||; Fakenham ||; East-gate Railway Cutting, Bury; Wangford:—between Wangford and Lakenheath, *Bolton King*, *fide G. C. Druce*:—Bot. and Barrett's Gardens, Bury, *Hb. Sk.*:—Santon Downham, *Norgate*.

5. Ipswich, *C.B.*; Wherstead! *Haward*.

Earliest record 1862. E. Skepper.

2. *E. acris*, Linn.

Blue Fleabane.

Bab. Man. 188,9. Hook. St. Fl. 204,5. H. & S. 42. Top. Bot. Suff. E. and W. Galp. 77.

Small biennial; on heaths and dry banks. July, Aug.

1. East-gate, Bury ||; Culford Heath; Honington; Troston; Livermere; Thurston; Ixworth Thorpe; Rickingham Inferior; Brandon ||; Elveden; Haughley:—Barton, *Hb. Blk.*:—Horringer, *Hbb. Sk. & Wils.*:—Mildenhall. *Hb. Dun.*:—Pakenham, *Hb. Cas.*:—Tostock, *Hb. Rk.*:—Bury, *Sir J. Cullum*:—Gt. Saxham, *Dr. White*:—Woolpit, *J. Rasor*:—Cavenham and Tuddenham, *Blackett*:—Risby and Santon Downham, *Sk. ms.*

2. Melford:—Hitcham, *Hb. Hens.*:—Lit. Thurlow, *Hb. F.*

3. Hopton and Belton:—Lake Lothing:—Flixton, *H.B.C.*:—Lowestoft, *E. Sk.*:—Oulton, *McAub.*

4. Burgate, *C. J. Ashfield*:—Westleton ||:—Friston and Lit. Glemham Park, *E.N.B.*:—Homersfield Heath, *Galp.*

5. Aldeburgh:—Blakenham and Felixstowe, *T.B.*:—Bramford; Baylham, *Haward*:—Roadside at Melton, *Ms. Davy*:—Woodbridge, *Rev. P. Lathbury in Hb. Ly.*

Earliest record 1773. Sir J. Cullum.

Bellis, Linn.

1. *B. perennis*, Linn.

Common Daisy.

Bab. Man. 189. Hook. St. Fl. 205. H. & S. 43. Hist. Yarm. Top. Bot. Suff. E. and W. Hist. Wher. Galp. 77.

Herbaceous perennial; frequent in pastures.

March to October.

Common in all the districts.

Earliest record 1773. Sir J. Cullum.

Solidago, Linn.

1. *S. Virgaurea*, Linn.

Golden Rod.

Bab. Man. 189. Hook. St. Fl. 205, 6. H. & S. 43. Hist. Yarm.
Hist. Bury. Top. Bot. Suff. E. and W. Hist. Wher. Galp. 77.

Herbaceous perennial; not infrequent on heaths and
in woods. July to September.

Not infrequent in all the districts; except the South-
west where so far no example of it has been found.

S. angustifolia, Koch.

Bab. Man. 189. Hook. St. Fl. 206.

3. Covehithe || where it is the prevailing form.

Earliest record 1773. Sir J. Cullum.

Inula, Linn.

†1. *I. Helenium*, Linn.

Elecampane.

Bab. Man. 189-90. Hook. S. Fl. 207. H. & S. 43. Galp. 127.

Large herbaceous perennial; in moist pastures.

July, August.

1. Rattlesden, *H. & S.*:—Stowlangtoft (cultivated),
Hb. Rk.

3. Mettingham, *Woodward*:—Stoven, by the Cherry-
tree, *Wigg, fide H. & S.*

4. Framlingham, *F.N.B.*:—The Hall Farm, Parham,
Crabbe:—Sibton; Bramfield and Heveningham, *Ms. Davy*.

5. Crowfield, *T.B.*:—Ufford, *Crabbe*.

Earliest record 1775. Sir J. Cullum.

3. *I. Conyza*, DC.

Ploughman's Spikenard.

Bab. Man. 190. Hook. St. Fl. 206. H. & S. 43. Hist. Fram.
Hist. Bury. Top. Bot. Suff. E. and W. Galp. 78.

Herbaceous perennial; on dry chalky banks.

July to September.

1. Railway Cutting, Bury ||; Haughley; Euston and
Langham:—Fornham, *Hb. Wils.*:—Stanton, *Hb. Dun.*:—
Bury and Hawstead, *Sir J. Cullum*:—Drinkstone, *F.*:—
Pakenham, *Hb. Rk.*:—Onehouse, *J. Rasor*:—Little Wel-
netham, *Mrs. Carss.*:—Bardwell Carr, Risby, and Dalham,
E. Sk.

2. Acton:—Hitcham, *Hb. Hens.*:—Melford, *J.F.W.*

3. Bungay, *Stock.*

4. Mellis, *C. J. Ashfield*:—Aspall, *Miss Holden*:—Gt. Glemham and Cransford, *E.N.B.*:—Framlingham, *Crabbe*:—Middleton, *Ms. Dary*:—Mendham High Road, *Galp.*

5. Sutton and Claydon:—Barham, *F.*:—Gt. Bealings, *Moor*:—Lit. Blakenham, *Haward.*

Earliest record 1773. Sir J. Cullum.

[4. *I. crithmoides*, *Linn.* *Golden Samphire.*

Bab. Man. 190. Hook. St. Fl. 206. H. & S.

Herbaceous perennial; in muddy salt marshes,

July, August.

The only authority for the occurrence of this plant in Suffolk appears to be *Gough's Camden*; probable date 1789. In *Hb. Jeffes* is a small form of *Aster Tripolium* from Aldeburgh very like *I. crithmoides*.

Earliest record 1789. E. Forster.]

Pulicaria, *Gært.*

1. *P. vulgaris*, *Gært.* *Small Pulicaria.*

Bab. Man. 190. Hook. St. Fl. 207. H. & S. 43. Hist. Fram.

Hist. Bury. Top. Bot. Suff. ? E. 'Crabbe.'

Small annual; on moist sandy heaths; rare.

August, September.

4. Framlingham, 'in places where water stood in the winter,' *Crabbe.*

5. Bramford, 'on a bank by the side of a wet ditch,' *F. Fox.*

Earliest record 1798. Rev. G. Crabbe. Latest 1882.

2. *P. dysenterica*, *Gært.* *Common Pulicaria.*

Bab. Man. 190. Hook. St. Fl. 207. H. & S. 43. Hist. Yarm.

Top. Bot. Suff. E. & W. Hist. Wher. Galp. 78.

Herbaceous perennial; in ditches which are dry in summer.

August, September.

1. Honington ||; Ixworth Thorpe; Bardwell; Pakenham; Euston; Thetford; Barton Mills:—Barton, *Hb. Blk.*:—Bury and Tuddenham, *Hb. Wils.*:—Langham, *Hb. Rk.*:—Walsham, *Hb. Dun.*:—Mildenhall, *Sir C.J.F.B.*

2. Bures to Stoke:—Hitcham, *Prof. Hens.*:—Cockfield, *W.J.*:—Kersey, *E.F.L.*:—Aldham & Hadleigh, *F. Spalding.*

3. Belton; Bungay; Beccles; Kessingland:—Lowestoft, *E. Sk.*:—Oulton, *McAub.*

4. Redgrave ; Burgate ; Wortham ; Mellis ; Eye ; Walpole and Darsham :—Gt. Glemham, *E.N.B.*

5. Bawdsey ; Claydon ; Bentley ; Stutton and Shelley :—Ashbocking, *F.C.S.* :—Hemingstone, *T.B.* :—Wherstead, *Haward.*

Earliest record 1773. Sir J. Cullum.

Filago, *Linn.*

1. *F. germanica*, *Linn.* *Common Cudweed.*

Bab. Man. 191. Hook. St. Fl. 209, 10. H. & S. 46. Hist. Yarm.
Top. Bot. Suff. E. and W. Hist. Wher. Galp. 77.

Common annual or biennial ; in dry fields. July, Aug.
Frequent in all the districts.

Earliest record 1773. Sir J. Cullum.

2. *F. apiculata*, *G. E. Sm.* *Apiculate Cudweed*

Bab. Man. 191. Hook. St. Fl. 210. Top. Bot. Suff. W.

Annual ; formerly included under *F. germanica* ; sandy heaths. July, August.

1. Troston Heath :—Rushbrooke, *Hb. Wils.* :—Red-neck Heath, *J. W. Salter, Phyt. O.S.*, xcv, 480. :—sandy fields at Cavenham, *Hb. Sk.*

4. Westleton Heath, ||.

5. Field near the Ferry, Sutton ||.

Earliest record 1849. J. W. Salter.

3. *F. spathulata*, *Prest.* *Spathulate Cudweed.*

Bab. Man. 191. Hook. St. Fl. 210.

Annual ; formerly included in *F. germanica* ; dry heaths. July, August.

1. Wangford || :—between Elveden and Icklingham, 1876, *A.B.* :—between Lackford and Bury ||, 1883, *G. C. Druce* :—Fornham, *Hb. Ly.*

Earliest notice 1856. Lathbury.

4. *F. minima*, *Fries.* *Least Cudweed.*

Bab. Man. 191. Hook. St. Fl. 210. H. & S. 46. Hist. Fram.
Hist. Yarm. Top. Bot. Suff. E. and W. Hist. Wher. Galp. 77.

Small annual ; on sandy or gravelly soil. June to Sep.

1. Troston || ; Barnham ; Honington ; Sapiston ; Ixworth Thorpe ; Knettishall ; Thetford ; Elveden ; Eriswell ; Mildenhall :—Tuddenham Heath, *Hb. Sk.* :—Culford Heath,

Gray:—Barningham, *E.F.L.*:—Woolpit, *F.*:—Risby Heath, *E. S. Marshall*.

2. Stoke-by-Nayland.

3. Bungay; Belton and Benacre:—Flixton, *H.B.C.*

4. Sizewell; Dunwich and Westleton:—Sweffling, *E.N.B.*:—Framlingham, *Crabbe*:—Stuston, *Collins*:—Wor-tham Ling, *E. S. Marshall*.

5. Wherstead, *Haward*.

Earliest record 1798. Rev. G. Crabbe.

5. *F. gallica*, *Linn.* *French Cudweed.*

Bab. Man. 192. Hook. St. Fl. 210. H. & S. 46.

Annual; in dry gravelly places; very rare.

July to September.

5. Sutton ||, October 1, 1883. Likely new to Suffolk; as the notices in Br. Fl. and Ips. Fl. are believed to be mistakes, *Gnaphalium uliginosum* being likely the plant referred to.

First record 1883. Hind.

Gnaphalium, *Linn.*

1. *G. luteo-album*, *Linn.* *Jersey Cudweed.*

Bab. Man. 192. Hook. St. Fl. 208. H. & S. 45.

Annual; on sandy soil; very rare. July, August.

1. Eriswell, *H. & S.*:—Eriswell, *F.K.E. in Hb. Ly.*
now extinct.

Earliest record 1852. Eagle.

2. *G. uliginosum*, *Linn.* *Marsh Cudweed.*

Bab. Man. 192. Hook. St. Fl. 208. H. & S. 45. Hist. Fram.

Hist. Yarm. Top. Bot. Suff. E. and W.

Herbaceous perennial; in moist places; often in cart-tracks in woods. July, August.

Frequent in all the districts.

Earliest record 1773. Sir J. Cullum.

3. *G. silvaticum*, *Linn.* *Wood Cudweed.*

Bab. Man. 192. Hook. St. Fl. 208. H. & S. 45. Hist. Yarm.

Top. Bot. Suff. E. Hist. Wher. Galp. 78.

Erect herbaceous perennial; in woods and on sand hills.

July to September.

1. Fakenham Wood ||:—Woolpit Heath, *Hb. F.*:—Barton, *Sir C.J.F.B.*

3. Belton Common, *Wigg* :—Hedge by Corton Wood, *D. Turner* :—Road from Yarmouth to Beccles, *Jas. Turner* :—Fritton, *H. & S.* :—Oulton, *McAub.*

4. Roadside from Farnham to Snape, *Crabbe* :—Weybread, *H.B.C.*

5. Wherstead, *Haward.*

Earliest record 1773. Sir J. Cullum.

Antennaria, *R. Brown.*

1. *A. dioica*, *Gært.*

Cat's-foot.

Bab. Man. 192,3. Hook. St. Fl. 209. H. & S. 45.

Small herbaceous perennial; on elevated heaths.

June, July.

1. Newmarket Heath, *Hb. Cas.* :—Cavenham Heath, *Pitchford* :—Culford Heath, *H. & S.*

Earliest record 1773. Sir J. Cullum.

[2. *A. margaritacea*, *R. Brown.* *Pearly Everlasting.*

Bab. Man. 193. Hook. St. Fl. 209. H. & S. 45.

Herbaceous perennial; in moist meadows; rare. Aug.

1. Eriswell ||; *Hb. Blk.*

5. Gravel-banks at Bentley, *H. & S.* Likely a garden stray.

Earliest notice 1850? Lady Blake.]

Achillæa, *Linn.*

1. *A. Ptarmica*, *Linn.*

Sneezewort Yarrow.

Bab. Man. 193. Hook. St. Fl. 212.

H. & S. 44.

Hist. Fram.

Hist. Yarm. Top. Bot. Suff. E. and W.

Galp. 78.

Herbaceous perennial; in moist pastures; less frequent in Suffolk than in many other counties.

July, August.

1. Mildenhall Fen ||; Haughley || :—Pakenham, *Hb. Rk.* :—Tuddenham, *Hb. Wils.* :—Bury, *Sir J. Cullum* :—Daltham, *Rev. F. Tearle* :—Ixworth, *Hb. Jeffes.*

2. Nayland, *Hb. Gray* :—Lit. Thurlow, *Hb. F.*

3. Beccles :—Bungay, *Stock* :—Bradwell, *Paget* :—Pakefield, *E. Sk.* :—Oulton, *McAub.* :—Worlingham and Barsham, *R. E. Leach.*

4. In wet meadows and about the Mere, Framlingham,

Crabbe:—Yaxley, *Rev. W. H. Sewell*:—Gt. Glemham, *E. N. B.*:
—Mendham, *H. B. C.*

5. Ashbocking, *F. C. S.*

Earliest record 1775. Sir J. Cullum.

[*A. decolorans*, *Schrad.*

Bab. Man. 193. Hook. St. Fl. App. 532.

Herbaceous perennial.

September.

1. Roadside by the brook, near the Rectory, Drinkstone ||, *Hb. F.*

Only notice 1850? Mrs. French.]

2. *A. Millefolium*, *Linn.*

Milfoil. Yarrow.

Bab. Man. 194. Hook. St. Fl. 212, 13.

H. & S. 44. Hist. Yarm.

Top. Bot. Suff. E. and W. Hist. Wher. Galp. 78.

Herbaceous perennial; frequent in pastures and by waysides.

June to August.

Very common in all the districts.

Earliest record 1773. Sir J. Cullum.

Anthemīs, *Linn.*

1. *A. arvensis*, *Linn.*

Corn Chamomile.

Bab. Man. 194. Hook. St. Fl. 211, 12.

H. & S. 44. Hist. Fram.

Top. Bot. Suff. E. and W. Hist. Wher. Galp. 78.

Annual weed; in corn-fields:

June, July.

1. Brandon ||; Culford Heath ||; Barnham; Fakenham; Honington; Sapiston; Newmarket:—Mildenhall, *Hb. Blk.*:—Higham, *W. J.*:—Hardwick, *Hb. Sk.*:—Bury, *Sk. ms.*

2. Hitcham, *Prof. Hens.*

3. Near Breydon Water.

4. Framlingham, *Crabbe*:—Mendham, *Galp.*

5. Stutton and Bentley:—Gt. Bealings (?), *Moor*:—

Ipswich, *W. L. N.*:—Wherstead, *Haward.*

Earliest record 1773. Sir J. Cullum.

2. *A. Cotula*, *Linn.*

Fetid Chamomile.

Bab. Man. 194, 5. Hook. St. Fl. 212.

H. & S. 44. Hist. Fram.

Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 78.

Annual weed; in waste places and fields. July to Sep.

1. Honington ||; Bardwell; Barnham and Shelland:—Hardwick, *Hb. Sk.*:—Pakenham, *Hb. Cas.*:—Bury, *Sir J. Cullum.*

2. Stoke and Nayland:—Hitcham, *Hb. Hens.*:—Cockfield, *W. J.*

3. Gorleston :—St. Margaret's, *Galp.*
 4. Botesdale and Burgate :—Framlingham, *Crabbe* :—
 Mendham, *H.B.C.* :—Gt. Glemham, *E.N.B.*
 5. Stutton :—Grundisburgh, *T.H.* :—Wherstead, *Ha-*
ward :—Woodbridge, *Hb. Ly.*
 Earliest record 1773. Sir J. Cullum.

[*A. tinctoria*, *Linn.*

Yellow Chamomile.

Bab. Man. 195. Hook. St. Fl. App. 532.

Biennial ; alien ; likely introduced with ballast.

July, August.

3. Lowestoft, *Hb. Sk. & || E.N.B.*

Earliest notice 1862. Rev. E. N. Bloomfield.]

3. *A. nobilis*, *Linn.*

Officinal Chamomile.

Bab. Man. 195.

Hook. St. Fl. 212.

H. & S. 44.

Top. Bot.

Suff. E. *Galp.* 79.

Perennial, aromatic herb, used medicinally ; on dry
 commons.

July, August.

1. Santon Downham, *Norgate.*

2. Lidgate, *Rev. F. Tearle.*

3. Bungay, *Stock* :—Blundeston and Bradwell Com-
 mons, *Wigg* :—Flixton, *H.B.C.* :—near Lowestoft, *Sir J. E.*
Smith.

Earliest record 1773. Sir J. Cullum.

Matricaria, *Linn.*

‡1. *M. Parthenium*, *Linn.*

Feverfew.

Bab. Man. 195.

Hook. St. Fl. 214.

H. & S. 43.

Hist. Yarm.

Top. Bot. Suff. E. and W.

Hist. Wher.

Galp. 79.

Herbaceous perennial ; in waste places and hedge-
 banks.

July, August.

1. Ixworth Thorpe || ; Honington ; Coney Weston ;
 Hopton ; Bury and Mildenhall :—Tostock, *Hb. Rk.* :—Wal-
 sham, *Hb. Dun.*

2. Hitcham, *Hb. Hens.* :—Nayland, *Gray* :—by Pey-
 ton Hall, Hadleigh, *F. Spalding* :—Fences at the Rectory,
 Cockfield, *C.B.* :—Wiston.

3. Mettingham ; Burgh Castle and Kessingland :—
 Bungay, *Stock* :—Flixton, *H.B.C.* :—Gorleston, *Phyt.* 1863 :
 —Worlingham ; Beccles, *H. G. Glasspoole in Hb. Geld.*

4. Dunwich :—Gt. Glemham, *E.N.B.*

5. Aldeburgh ; Bromeswell ; Felixstowe :—Ashbocking,
F.C.S. :—Needham Market, *E. Clowes* :—Wherstead, *Haward*.
Earliest notice 1773. Sir J. Cullum.

2. *M. inodora*, *Linn.*

Scentless Mayweed.

Bab. Man. 195. Hook. St. Fl. 213, 14. H. & S. 44. Hist. Fram.
Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 79.
Annual weed ; frequent in fields and waste places.

July, August.

Common in all the districts.

b. M. salina, Bab.

Bab. Man. 195.

5. Stutton || ; Catawade ; Bawdsey.

Earliest record 1773. Sir J. Cullum.

3. *M. Chamomilla*, *Linn.*

Wild Chamomile.

Bab. Man. 196. Hook. St. Fl. 213. Hist. Yarm. Top. Bot.
Suff. E. and W. Hist. Wher.

Annual weed ; in fields and waste ground. June, July.

1. Honington || ; also form *flore pleno* ; Mildenhall :—
Barrow ; Bury, *Hb. Sk.* :—Hardwick, *Hb. Wils.* :—Paken-
ham, *Hb. Cas.*

2. Melford, Stoke and Nayland :—Hitcham, *Hb. Hens.* :—
Kersey, *E.F.L.* :—Cockfield, *Sk. ms.*

3. Bungay ; Belton, *E.N.B.* :—Southwold, *Hb. Ly.*

5. Hemingstone, *T.B.* :—Grundisburgh, *T.H.* :—Berg-
holt, *Dr. White* :—Ipswich, *H. & S.* :—Wherstead, *Haward*.

Earliest record 1773. Sir J. Cullum.

Chrysanthemum, *Linn.*

1. *C. Leucanthemum*, *Linn.*

Ox-eye.

Bab. Man. 196. Hook. St. Fl. 214. H. & S. 43. Hist. Yarm.
Top. Bot. Suff. E. and W. Hist. Wher. Galp. 79.

Herbaceous perennial ; frequent on banks and pastures.

June to August.

Common in all the districts.

Earliest record 1773. Sir J. Cullum.

†1. *C. segetum*, *Linn.*

Corn Marigold.

Bab. Man. 196. Hook. St. Fl. 214. H. & S. 43. Hist. Yarm.
Top. Bot. Suff. E. and W. Hist. Wher.

Annual weed ; in cultivated fields. June to August.
Occasionally in all the districts.

Earliest record 1773. Sir J. Cullum.

Diotis, Desf.

1. *D. maritima*, Cass. Sea Cotton-weed.

Bab. Man. 196. Hook. St. Fl. 213. H. & S. 44. Top. Bot. Suff. E.

Herbaceous perennial ; on sandy sea-shores ; not recently found in Suffolk, and supposed to be extinct.

August, September.

3. Between Lowestoft and Pakefield, *Sir J. E. Smith* :
—Southwold ||, *Hb. Blk.* :—Benacre, *F. Spalding*.

4. Dunwich, *Hb. Cas.*, & *Sir C.J.F.B.* 1857, & *Foster* 1807 ; *Ms. Davy*.

5. Aldeburgh and Orford, near the Lighthouse, *Crabbe* :
—Orford, *F. Spalding* :—on the beach just above high water mark, one mile North of Landguard Fort, *Sir J. E. Smith*, also *Hb. Sk.*

Earliest record 1800. Sir J. E. Smith.

Artemisia, Linn.

1. *A. Absinthium*, Linn. Wormwood.

Bab. Man. 196. Hook. St. Fl. 216. H. & S. 45. Hist. Yarm.
Top. Bot. Suff. E. & W. Hist. Wher.

Herbaceous perennial ; on waste ground. July, Aug.

1. Wattisfield || :—Chalk-pits, Bury, *Hb. Sk.* :—Tos-
tock, *Hb. Rk.* :—Culford, *Gray*.

2. Gt. Wrattling, *Hb. F.*

3. Lowestoft, *Hb. Sk.* :—Bungay, *H. & S.* :—Gorleston,
Phyt. 1862 :—Oulton, *McAub.*

4. Benhall, *E.N.B.* :—Dunwich, *T.W.G.* :—Oakley,
Collins.

5. Aldeburgh, *Hb. Cas.* :—Gt. Bealings, *Moor* :—Cod-
denham, *F. Fox* :—Hemingstone, *T.B.* :—Needham Market,
E. Clowes :—Bentley and Somersham, *H. & S.* :—Wherstead,
Haward.

Earliest record 1773. Sir J. Cullum.

2. *A. campestris*, Linn. *Field Artemisia.*

Bab. Man. 196, 7. Hook. St. Fl. 215. H. & S. 45. Hist. Bury.
Top. Bot. Suff. W.

Herbaceous perennial; on sandy heaths, confined to the Breck country of the North-west district, and to a similar tract in the South-west of Norfolk. August, September.

1. Brandon ||; Thetford Heath ||; (also *Rev. G. R. Leathes in Hbb. Rk. & Wils.*); Barnham Heath, Lakenheath and Eriswell:—near Barton Mills and Elveden, *T. Willisell in Dill.*:—Icklingham, *Hb. Sk.*:—Mildenhall, *Sir C.J.F.B.*:—Wangford, *H. & S.*:—the Nunnery Wall, Thetford, *Sk. ms.*:—Barton Mills, *Hb. Budd.*

Earliest record 1724. Willisell.

3. *A. vulgaris*, Linn. *Mugwort.*

Bab. Man. 197. Hook. St. Fl. 215. H. & S. 45. Top. Bot. Suff. E. and W. Hist. Wher. Galp. 79.

Herbaceous perennial; in hedge banks and borders of fields. July to September.

Common in all the districts.

Earliest record 1774. Sir J. Cullum.

4. *A. maritima*, Linn. *Southernwood.*

Bab. Man. 197. Hook. St. Fl. 216. H. & S. 45. Hist. Yarm.
Hist. Bury. Top. Bot. Suff. E.

Herbaceous perennial; in salt marshes. Aug., Sep.

3. Southwold:—Breydon Water, *Paget.*

4. Walberswick ||.

5. Stutton ||; Walton; Felixstowe; Sutton:—Aldeburgh, *Sir C.J.F.B.*:—Orford, *Thos. Martyn*:—Brantham, *Sk. ms.*:—Landguard Fort, *Sir T. G. Cullum.*

b. A. gallica, Willd.

Bab. Man. 197. Hook. St. Fl. 216.

5. Sutton ||; Aldeburgh:—Orford, *E.N.B.*

Earliest record 1763. T. Martyn.

Tanacetum, Linn.

1. *T. vulgare*, Linn. *Tansy.*

Bab. Man. 197. Hook. St. Fl. 215. H. & S. 44, 5. Hist. Fram.
Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 79.

Herbaceous perennial; not infrequent on banks and waysides. August.

Frequent in all the districts.

Earliest record 1773. Sir J. Cullum.

Doronicum, *Linn.*

†1. *D. Pardalianches*, *Linn.* *Great Leopard's-bane.*

Bab. Man. 197,8. Hook. St. Fl. 217.

Herbaceous perennial; damp and hilly woods and pastures; rare. May to July.

1. In a lane behind the Rectory, Market Weston ||.

3. Bank near the Rectory, Barsham. *F. Spalding.*

5. Hemingstone, *T.B.* Likely a stray in these localities.

Earliest notice 1860? Rev. T. Brown.

†2. *D. plantagineum*, *Linn.*? *Plantain-leaved* *Leopard's-bane.*

Bab. Man. 198. Hook. St. Fl. 217.

Herbaceous perennial; in damp places; rare.

June, July.

4. In quantity in a plantation, Gt. Glemham, *E.N.B.*:

—Abbey Wood, Huntingfield ||, *Holland.*

Earliest notice 1855? Rev. E. N. Bloomfield.

Senecio, *Linn.*

1. *S. vulgaris*, *Linn.* *Common Groundsel.*

Bab. Man. 198. Hook. St. Fl. 218. H. & S. 46. Top. Bot.

Suff. E. and W. Hist. Wher. Galp. 80.

Annual weed; very common on cultivated land.

Throughout the year.

Common in all the districts.

S. crassifolius, W.

Bab. Man. 198.

5. On gravel at Ipswich Docks ||, 1885.

Earliest record 1773. Sir J. Cullum.

2. *S. silvaticus*, *Linn.* *Wood Groundsel.*

Bab. Man. 198. Hook. St. Fl. 218. H. & S. 46. Top. Bot.

Suff. E. and W. Hist. Wher. Galp. 80.

Tall annual weed; on dry and gravelly soil.

July to September.

Frequent in all the districts.

S. lividus, Sm.

Bab. Man. 198. Hook. St. Fl. 218.

1. Barton, *Hb. Rk.*

Earliest record 1773. Sir J. Cullum.

3. *S. viscosus*, Linn.*Clammy Groundsel.*

Bab. Man. 198,9.

Hook. St. Fl. 218.

H. & S. 46.

Top. Bot. Suff. E.

Annual weed ; in waste places and on gravelly shores ;
rare. July to September1. Bury, old brick grounds, Newmarket Road, *Hb. Sk.*3. Covehithe :—Lowestoft, *H. & S.* :—Easton Broad,
J.H.G. :—Southtown, *J. Priest in Hb. Geld.*4. Sizewell ; Thorpe :—Dunwich, common land to-
wards Walberswick, *Holmes.*5. Aldeburgh ||, plentiful :—Hemingstone, *T.B.*

Earliest record 1805. E. Forster, jun.

**S. squalidus*, Linn.*Squalid Groundsel.*

Bab. Man. 199.

Hook. St. Fl. 219.

H. & S. 46.

Annual or biennial weed ; usually on old walls.

June to October.

1. Lane off Northgate Street, Bury, in quantity || :—
Mr. Green's old garden wall, *C.B. & Hbb. Sk. & Ly.*

Earliest record 1849. Rev. P. Lathbury.

4. *S. erucifolius*, Linn.*Narrow-leaved Ragwort.*

Bab. Man. 199.

Hook. St. Fl. 218,19.

H. & S. 46.

Top. Bot. Suff. E. & W.

Herbaceous perennial ; chiefly on clayey or chalky soil.
July, August.1. Honington || ; Ixworth Thorpe ; West Row ; Mil-
denhall ; Haughley ; Wetherden and Onehouse :—Bury,
Hb. Wils. :—Barton, *Sir C.J.F.B.*—Barningham, *E.F.L.* :
—Woolpit, *J. Rasor.*2. Rede, *Hb. Turn.* :—Melford :—Hitcham, *Hb. Hens.* :
—Cockfield, *W.J.* :—Brettenham, *C.B.*3. St. Olave's ; Bungay and Benacre :—Pakefield, *Hb.*
Sk. :—Lowestoft ; Mutford ; Carlton Colville and Kessing-
land, *Sk. ms.*4. Botesdale ; Stuston ; Eye ; Sibton :—Gt. Glemham
and Sternfield, *E.N.B.* :—Ubbeston, *Mrs. Toller.*

5. Claydon :—Orford, *Hb. Cas.* :—Brantham, *Sk. ms.* :—Woodbridge, *H. G. Glasspoole in Hb. Geld.*
Earliest record 1848. Prof. Henslow.

5. *S. Jacobæa*, *Linn.* *Common Ragwort.*

Bab. Man. 199. Hook. St. Fl. 218. H. & S. 46. Top. Bot. Suff. E. and W. Hist. Wher. Galp. 80.

Perennial weed; in pastures and meadows. July to Sep.
Common in all the districts.

Earliest record 1773. Sir J. Cullum.

6. *S. aquaticus*, *Huds.* *Water Ragwort.*

Bab. Man. 199. Hook. St. Fl. 219. H. & S. 46. Top. Bot. Suff. E. and W. Galp. 80.

Herbaceous perennial; frequent in marshy places.

July, August.

Common in all the districts.

Earliest record 1773. Sir J. Cullum.

7. *S. paludosus*, *Linn.* *Marsh Ragwort.*

Bab. Man. 200. Hook. St. Fl. 219. H. & S. Top. Bot. Suff. W.

Herbaceous perennial; in fen ditches. 'Lost more than sixty years ago from the locality where Mr. Eagle discovered it in 1798.'

May to July.

1. 'In Lakenheath Fen, near Wangford,' *Rev. J. Hemsted* :—Lakenheath Fen, *Hbb. Cas.*, *Ly.* & *Sk.* :—Lakenheath Fen by Wangford, *Rev. G. R. Leathes in Hb. Borrer*, & *F.K.E. in Hb. Ly.*

Earliest record 1798. F. K. Eagle.

9. *S. palustris*, *DC.* *Marsh Cineraria.*

Bab. Man. 200. Hook. St. Fl. 219, 20. H. & S. 46. Hist. Yarm. Top. Bot. Suff. E. and W.

Herbaceous perennial; in fen ditches; very rare.

June, July.

1. Brandon, *Top. Bot.* :—Wangford, *Hb. Cas.* :—Lackford, *Hb. Sk.*, with note, 'I found the above specimen at Lackford in June, 1774,' *T.G.C.* 'I have never found this plant near Bury since.' Sir J. Cullum has a note in his Naturalist's note-book to the same effect.

3. At the first after you come into Lovingland, *J. Sherardin Dill. Ray* :—'Worlingham Common, by the ditch-sides,' *Crabbe* :—Belton, *Britten*.

Earliest record 1724. J. Sherard.

10. *S. campestris*, DC. *Field Cineraria.*

Bab. Man. 200. Hook. St. Fl. 220. H. & S. 47. Top. Bot. Suff. W.

Herbaceous perennial; on chalk downs. June.

1. Newmarket Heath ||, *Sir J. Cullum & Cas. in Hb. Rk.*

Earliest record 1774. Sir J. Cullum.

Bidens, Linn.

1. *B. tripartita*, *Three-cleft Bur Marigold.*

Bab. Man. 201. Hook. St. Fl. 211. H. & S. 47. Hist. Fram.? Hist. Yarm. Top. Bot. Suff. E. and W.

Annual; in wet ditches and the edge of ponds.

August, September.

1. Bury, *Hbb. Sk. & Wils.*:—Walsham, *Hb. Dun.*:—Barton and Mildenhall, *Sir C.J.F.B.*:—Bradfield Combust, *W.J.*:—Fornham, *H. & S.*

2. Cockfield, *C.B.*:—Lit. Bradley, *Hb. F.*:—Hitcham, *Prof. Hens.*

3. Kessingland ||:—Barsham Brook, *R. E. Leach.*

4. Benhall Green, *E.N.B.*:—Framlingham? *Crabbe*:—Stuston Common, *Collins.*

Earliest record 1798. Rev. G. Crabbe.

2. *B. cernua*, Linn. *Nodding Bur Marigold.*

Bab. Man. 201. Hook. St. Fl. 210. H. & S. 47. Hist. Fram. Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 78.

Annual weed; in ditches and pools. August, Sep.

1. Bardwell; Sapiston; Ixworth Thorpe; Thetford; Lakenheath:—Livermere, *Hb. Sk.*:—Bury, *Hb. Wils.*:—Mildenhall, *Hb. Dun.*:—Pakenham, *Hb. Cas.*:—Barton, *Sir C.J.F.B.*:—Ixworth and Tuddenham, *Sk. ms.*

2. Nayland and Wiston, *Gray*:—Hitcham, *Hb. Hens.*

3. Hopton ||; Fritton; St. Olaves; Kessingland; Beccles; Bungay:—Belton, *E.N.B.*:—Lowestoft and West of Benacre Broad, *E. Sk.*:—Oulton, *McAub.*

4. Dunwich:—Farnham, *E.N.B.*:—Wenhaston, *W.J.*:—Framlingham, *Crabbe*:—Weybread, *Galp.*

5. Brantham, *C.B.*:—Dunningworth Hall, Tunstall, *E.N.B.*:—Orford.

Earliest record 1773, Sir J. Cullum.

Carlina, *Linn.*

1. *C. vulgaris*, *Linn.*

Carlina Thistle.

Bab. Man. 201, 2. Hook. St. Fl. 221. H. & S. 48. Hist. Fram.
Top. Bot. Suff. E. and W.

Biennial herb ; on sandy heaths. July to October.

1. Culford Heath ; Risby ; Railway-bank, Eastgate, Bury ; Troston ; Knettishall ; Fakenham :—Nowton, *Hb. Sk.* :—Hardwick, *Hb. Wils.* :—Barton and Mildenhall, *Sir C.J.F.B.* :—Stanton, *Hb. Cas.* :—Hinderclay, *Rev. J.S. Sawbridge* :—Barton Mills ||, *Hb. Dun.* :—Felsham, *W.J.* :—Hawstead and Barrow Bottom, *E. Sk.* :—Higham and Tuddenham, *Blackett.*

2. Acton :—Thorpe Morieux and Cockfield, *W.J.* :—Hitcham, *Hb. Hens.* :—Aldham, *E.F.L.* :—Melford, *J.F.W.* :—Brent Eleigh, *Hb. Ly.*

3. Bungay, *Stock* :—Benacre, *Sk. ms.*

4. Westleton :—Lit. Glemham :—near Easton, *Crabbe* :—Framlingham, *E.N.B.*

5. Aldeburgh and Claydon :—Felixstowe, *H.M.S.* :—Barking, *Sk. ms.* :—Wherstead, *Haward.*

Earliest record 1774. Sir J. Cullum.

Arctium, *Linn.*

1. *A. majus*, *Schk.*

Greater Burdock.

Bab. Man. 202. Hook. St. Fl. 220. H. & S. (Lappa). Hist.
Yarm. Top. Bot. Suff. E. and W. Galp. 80.

Large biennial herb ; in borders of fields and waste places. August.

1. Stanton || ; Ixworth Thorpe ; Honington ; Fakenham ; Troston ; Cavenham ; Mildenhall ; Lakenheath.

2. Melford ; Bures ; Wiston ; Nayland and Stoke.

3. Gorleston ; Mettingham ; Beccles ; Barsham.

4. Botesdale :—Weybread, *H.B.C.*

5. Aldeburgh ; Bromeswell ; Stutton and Shelley :—Gt. Bealings, *Moor* :—Grundisburgh, *T.H.* :—Ashbocking, *F.C.S.*

Earliest notice 1773. Sir J. Cullum in part.

2. *A. nemorosum*, *Lej.*

Grove Burdock.

Bab. Man. 202. Hook. St. Fl. 221.

Large biennial herb ; in hedges and woods. August.

1. Fakenham Wood || ; Pakenham, *Hb. Rk.* :—Elveden.
2. Stoke-by-Nayland :—Hitcham, *Hb. Hens.*
3. Burgh Castle ; Kessingland ; Worlingham :—Covehithe, *Hb. Ly.*

Earliest notice 1850 ? Lady Blake.

3. *A. minus*, *Schk.*

Lesser Burdock.

Bab. Man. 202. Hook. St. Fl. 220, 21. Galp. 80.

Biennial herb ; in borders of fields. August.

1. Fakenham || ; Troston :—Bury, *Hb. Wils.*
2. Acton :—Nayland and Polstead, *Gray* :—Hitcham, *Hb. Hens.* :—Kersey, *E.F.L.*
3. Burgh Castle ; Kessingland and Benacre ; Beccles.
4. Redgrave.
5. Alderton ; Stutton :—Grundisburgh, *T.H.* :—Wherstead, *Haward.*

Earliest notice 1876. Hind.

4. *A. intermedium*, *Lange.*

Intermediate Burdock.

Bab. Man. 202, 3. Hook. St. Fl. 221. Galp. 80.

Biennial herb ; waste places and borders of fields. Aug.

1. Fakenham || ; Stanton || ; Honington ; Troston || ; Elveden ; Westley Wood.
2. Long Melford.
3. Mettingham ; Burgh Castle ; Kessingland ; Beccles :—Oulton, *McAub.* :—St. Margarets, (*E.A.H.*) *Galp.*
4. Redgrave. 5. Stutton.

Earliest notice 1878. Hind.

Serratula, *Linn.*

1. *S. tinctoria*, *Linn.*

Saw-wort.

Bab. Man. 203. Hook. St. Fl. 224. H. & S. 47. Hist. Bury.

Ger.

Herbaceous perennial ; in thickets ; rare in Suffolk.

August.

1. Coney Weston, *Mrs. Gibson & Hb. Rk.* :—in Barton Park, sparingly, *Sir C.J.F.B.* :—Bury and Icklingham, *Sir J. Cullum.*

5. Hemingstone, *T.B.*

Earliest record 1597. Gerarde.

Centaurea, *Linn.*[*C. Jacea*, *Linn.* *Brown-radiant Knapweed.*

Bab. Man. 203. Hook. St. Fl. App. 532.

A rare casual; likely from imported grass or other seed.
August September.

1. Hardwick, June 9th, 1775. Sir J. Cullum.]

1. *C. nigra*, *Linn.* *Black Knapweed.*Bab. Man. 203,4. Hook. St. Fl. 222. H. & S. 48. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. and W. Galp. 81.

Herbaceous perennial; frequent in pastures, &c.

June to September.

Common in all the districts.

c. nigres-cens, Bab.

5. Sea-dyke, Bawdsey, dwarf form ||.

Earliest record 1773. Sir J. Cullum.

2. *C. Cyanus*. *Corn Bluebottle.*Bab. Man. 204. Hook. St. Fl. 222. H. & S. 48. Hist. Fram.
Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W.

Tall annual; in cornfields.

June to August.

In all the districts, but less plentiful than formerly,
through improved farming.

Earliest record 1773. Sir J. Cullum.

3. *C. Scabiosa*, *Linn.* *Great Knapweed.* *Matfellow.*Bab. Man. 204. Hook. St. Fl. 222. H. & S. 48. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. and W. Galp. 81.Herbaceous perennial; borders of fields and hedges;
more abundant in Suffolk than in most counties.

July to September.

Freely distributed throughout all the districts.

Earliest record 1773. Sir J. Cullum.

†4. *C. solstitialis*, *Linn.* *Yellow Star Thistle.*

Bab. Man. 204,5. Hook. St. Fl. 223. H. & S. 49.

Herbaceous annual; in Suffolk only as a casual on cul-
tivated land

July to September.

1. Euston ||; Bowbeck, Bardwell || and Honington,
among Sainfoin :—Pakenham, among Lucerne, *Hb. Cas.* :—

Rougham, *Hb. Rk.*:—Barton, *Mag. Nat. Hist.*:—Bury; Wel-netham, *H. & S.*

3. Lowestoft Docks, *Hb. Sk.*:—near the Beach, South-wold, *Holmes*:—Gunton, *H. & S.*

4. Dunwich, *Mrs. Symonds*.

5. Woolverstone, *H.M.S.*

Earliest record 1804. Sir T. G. Cullum.

5. *C. Calcitrapa*, *Linn.* *Common Star Thistle.*

Bab. Man. 205. Hook. St. Fl. 223. H. & S. 48. Hist. Yarm.

Hist. Bury. Top. Bot. Suff. E.

Annual weed; chiefly near the coast on gravelly soil.

July to September.

1. Bury, *Sir. J. Cullum*:—Mildenhall, *Sir C.J.F.B.*

3. Plentiful near the fish-houses, North Denes, Lowes-toft ||, *Hbb. Sk. & Cas.*:—Southwold, *Hbb. Rk. & Ly.*

5. Orford, *H. & S.*

Earliest record 1773. Sir J. Cullum.

Onopordum, *Linn.*

1. *O. Acanthium*, *Linn.* *Scotch Thistle.*

Bab. Man. 205. Hook. St. Fl. 227, 8. H. & S. 48. Hist. Yarm.

Top. Bot. Suff. E. and W. Galp. 81.

Tall biennial weed; on waste ground and hedge-banks.

August.

1. Bardwell; Bury; Fakenham; Honington; Liver-mere; Sapiston ||; Hopton; Market Weston; Thetford; West Stow; Brandon and Lakenheath:—Barnham, *C.B.*:—Troston, *Hb. Cas.*:—Mildenhall, *Sir C.J.F.B.*:—Thurston, *Gray*:—Pakenham, *E.F.L.*:—Cavenham; Higham and Tuddenham, *W.J.*:—Icklingham and Santon Downham, *Sk. ms.*

2. Layham and Long Melford:—Lidgate, *Rev. F. Tearle*:—Sudbury, *H. & S.*

3. Burgh Castle and St. Olaves:—Bungay, *Stock*:—Lowestoft, *Dr. Trimen*:—Southwold, *Hb. Rk.*:—Gorleston, *Phyt. 1862.*

4. Cookley; Dunwich and Walberswick:—Gt. Glem-ham, *E.N.B.*:—Leiston and Sizewell, *T.W.G.*:—Stuston, *Collins*:—near Mendham Mill, *Galp.*

5. Aldeburgh; Felixstowe and Ipswich:—Gt. Bealings, *Moor*:—Orford, *Hb. F.*:—Ashbocking, *F.C.S.*:—Sudbourne, *E.N.B.*

Earliest record 1773. Sir J. Cullum.

Carduus, *Linn.*

1. *C. nutans*, *Linn.*

Musk Thistle.

Bab. Man. 206. Hook. St. Fl. 224. H. & S. 47. Hist. Yarm.
Top. Bot. Suff. E. and W. Hist. Wher. Galp. 80.
Biennial weed; in pastures and by waysides.

May to August.

Frequent in all the districts.

Earliest notice 1773. Sir J. Cullum.

2. *C. crispus*, *Linn.*

Wetted Thistle.

Bab. Man. 206. Hook. St. Fl. 225. H. & S. 47. Hist. Yarm.
Top. Bot. Suff. E. and W. Galp. 80.

Tall biennial weed; chiefly by hedges. June to Aug.

In all the districts, not very frequent; absent from the Breck country.

b. C. acanthoides, *Linn.*

Bab. Man. 206. Hook. St. Fl. 225. Hist. Wher.

1. Thelnetham; Wetherden:—Thurstun, *C.B.*:—Bury, *Sir J. Cullum*:—Tostock, *Mrs. Terry*.

2. Stoke-by-Nayland; Melford and Clare:—Lit. Thurlow, *Hb. F.*:—Sudbury, *Fulcher*.

4. Redgrave ||; Wortham; Mellis:—Dunwich, *Sk. ms.*

5. Needham Market:—Wherstead, *Haward*.

Earliest record 1773. Sir J. Cullum.

3. *C. tenuiflorus*, *Curt.*

C. pycnocephalus, *Jacq.*

Slender Thistle.

Bab. Man. 206. Hook. St. Fl. 225. H. & S. 47. Hist. Yarm.
Top. Bot. Suff. E.

Biennial weed; usually by the sea-shore. June to Aug.

3. Belton ||; Lowestoft; Kessingland:—Southwold, *Blackett*:—Corton, *Phyt*, 1862:—St. Olaves; Somerleyton and Herringfleet, *Trimmer*.

4. Thorpe; Dunwich & Walberswick:—Snape, *E.N.B.*

5. Orford; Felixstowe and Walton:—Aldeburgh, *Hb. F.*:—Falkenham, *Haward*

Earliest record 1805. Wigg.

4. *C. lanceolatus*, Linn. *Cnicus lanceolatus*, Hoffm.
Spear Thistle.

Bab. Man. 206. Hook. St. Fl. 225. H. & S. 47. Hist. Yarm.
 Top. Bot. Suff. E. and W. Hist. Wher. Galp. 81.

Tall biennial weed; by waysides, hedges and waste places. July, August.

Very common in all the districts.

Earliest record 1773. Sir J. Cullum.

5. *C. eriophorus*, Linn. *Cnicus eriophorus*, Hoffm.
Woolly-headed Thistle.

Bab. Man. 207. Hook. St. Fl. 225, 6. H. & S. 48. Hist. Bury.
 Top. Bot. Suff. E. and W. Hist. Wher.

Biennial weed; on chalky waste ground. August.

1. Bury, *Sir T. G. Cullum.*:—near Felsham Hall;
 Gedding and Saxham, *Sk. ms.*:—Bradfield, *Rev. P. Lathbury.*

2. Hitcham, *Hb. Hens.*:—Lavenham, *Hb. Sk.*—Gt.
 Thurlow, *Hb. F.*:—Cockfield, *W. J.*:—Clare, *E. Forster, jun.*:
 —Lidgate, *Rev. F. Tearle*:—Long Melford, *J. F. W.*

3. Lowestoft, *H. G. Glasspoole in Hb. Geld.*

4. Debenham, *Ms. Davy*:—near Framlingham, *Crabbe*:
 —Eye, *H. & S.*

5. Felixstowe ||, *Ips. Portf.*:—Wherstead, *Haward.*

Earliest notice 1798. Rev. G. Crabbe.

6. *C. arvensis*, Curt. *Cnicus arvensis*, Hoffm.
Creeping Thistle.

Bab. Man. 207. Hook. St. Fl. 226. H. & S. 48. Hist. Yarm.
 Hist. Wher. Top. Bot. Suff. E. and W. Galp. 81.

Perennial and pernicious weed; spreading freely by underground stolons, and very difficult to eradicate: *flore albo*, Pakenham, *C. B.* July.

Much too frequent in all the districts.

Earliest record 1772. Sir J. Cullum.

7. *C. palustris*, Linn. *Cnicus palustris*, Hoffm.
Marsh Thistle.

Bab. Man. 207. Hook. St. Fl. 226, 7. H. & S. 47. Hist. Yarm.
 Hist. Wher. Top. Bot. Suff. E. and W. Galp. 81.

Annual weed in wet pastures; frequently growing very tall. July, August.

Very common in all the districts.

Earliest record 1773. Sir J. Cullum.

8. *C. pratensis*, Huds. *Cnicus pratensis*, Willd.
Meadow Thistle.

Bab. Man. 207. Hook. St. Fl. 227. H. & S. 48. Hist. Yarm.
Top. Bot. Suff. E. and W.

Herbaceous perennial; in marshy meadows and fens.
June to August.

1. Hopton Fen || :—Tuddenham ||, *Hb. Sk.* :—Mildenhall, near Eriswell, *Sir C.J.F.B.* :—Wangford and Lakenheath Fens, *E. Sk.*

3. North Cove and Barnby, *Holmes* :—Marsh at Bradwell, *Wigg* :—Belton Bog, *Paget* :—between Burgh and Belton, *Phyt. 1862* :—Bungay, *Stock*.

4. Redgrave Fen.

Earliest notice 1805. *Wigg*.

10. *C. acaulis*, Linn. *Cnicus acaulis*, Hoffm.
Stemless Thistle.

Bab. Man. 208. Hook. St. Fl. 226. H. & S. 48. Hist. Wher.
Top. Bot. Suff. E. and W. Galp. 81.

Herbaceous perennial; in light pastures. July to Sep.

1. Euston; Fakenham; Honington; Sapiston; Ixworth Thorpe; Bardwell; Knettishall ||; Thetford; Elveden; Risby and Lakenheath :—Hawstead, *C.B.* :—Pakenham, *Hb. Cas.* :—Stowlangtoft, *Hb. Rk.* :—Barningham and Culford Heath, *Gray* :—Barton and Mildenhall, *Sir C.J.F.B.* :—Hardwick, *Hbb. Sk. & Wils.* :—Chadwick Hall, Bradfield, *Dr. Clark* :—Barrow Bottom and Santon Downham, *Sk. ms.* :—Rushbrooke, *C.B.*

2. Thorpe, near Bull's Wood, Cockfield; Brettenham and Shimpling, *C.B.* :—Long Melford :—Hitcham, *Herb. Hens.* :—Rede, *Hb. Turn.* :—Lit. Thurlow, *Hb. F.*

3. Sandpit, St. Cross, *Holmes* :—Bungay, *Stock* :—St. Cross (E.A.H.), *Galp.*

4. Botesdale :—Wortham Ling, *C. J. Ashfield* :—Lit. Glemham Park and Gt. Glemham, *E.N.B.* :—Darsham, *Ms. Davy*.

5. Grundisburgh Hall Park, *Moor* :—Wherstead, *Harward*.

Earliest record 1775. Sir J. Cullum.

Silybum, Linn.

1. *S. marianum*, Gært. *Milk Thistle.*

Bab. Man. 208. Hook. St. Fl. 228. H. & S. 47. Hist. Yarm.
Galp. 81.

Large herbaceous perennial; on banks and waste places.
June, July.

1. Honington; Hopton; Troston; Fornham :—Stow-
langtoft, *Hb. Rk.* :—Kennet, *Hb. Cas.* :—Kentford, *Rev. F.*
Tearle :—Bury, *Hb. Ly.*

2. Stoke-by-Nayland ||, *Gray.*

3. Homersfield, *H.B.C.* :—Gorleston, *Phyt. 1862, 3* :—
Beccles.

4. Cookley, *Holland.*

5. Stutton; Walton :—Aldeburgh and Ipswich, *E.N.B.* :
—Gt. Bealings, *Moor* :—Barking, *T.B.*

Earliest record 1773. Sir J. Cullum.

Lapsana, Linn.

1. *L. communis*, Linn. *Nipplewort.*

Bab. Man. 209. Hook. St. Fl. 229. H. & S. 51. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. and W. Galp. 82.

Annual weed; in waste places and hedges. July, Aug.
Common in all the districts.

Earliest record 1773. Sir J. Cullum.

Arnoseris, Gært.

1. *A. pusilla*, Gært. *Dwarf Swine's Succory.*

Bab. Man. 209. Hook. St. Fl. 229. H. & S. 51. Hist. Fram.
Hist. Bury. Top. Bot. Suff. E. and W.

Small annual; in sandy fields. June to August.

1. Fornham St. Martin, *Hb. Sk.* :—Timworth, *Sir*
T. G. Cullum :—Wangford ||, *G. E. Druce* :—Mildenhall, *J.T.* :
—Lakenheath, *H. & S.*

4. Dunwich, *Ms. Davy* :—fields at Dingle, Westleton,
Davy :—Framlingham, *Crabbe.*

5. Broom Close, Barham, *F.* :—fields near the Alms-
houses, Woodbridge, *Crabbe.*

Earliest record 1774. Sir J. Cullum.

Cichorium, Linn.

1. *C. Intybus*, Linn. *Succory. Chicory.*

Bab. Man. 209. Hook. St. Fl. 228. H. & S. 51. Hist. Yarm.
Top. Bot. Suff. E. and W. Galp. 82.

Herbaceous perennial; on grassy waysides, generally in a gravelly or chalky soil.

1. Honington; Fakenham ||; Sapiston; Bardwell; Market Weston ||; Hopton; Hinderclay; Stanton; Troston:—Bradfield Combust, *C.B.*:—Nowton ||, *Hb. Wils.*:—Pakenham, *Hb. Cas.*:—Walsham, *Hb. Dun.*:—Bury, *Sir J. Cullum*:—Mildenhall, *Sir C.J.F.B.*:—Tuddenham, *E. Sk.*

2. Nayland and Clare:—Cockfield, *C.B.*:—Hitcham, *Hb. Hens.*:—Rede, *Hb. Turn.*:—Thurlow, *F.*:—Long Melford, *J.F.W.*:—Hadleigh, *F. Spalding*.

3. Mettingham; Burgh Castle; Belton and Kessingland:—Pakefield, *Hb. Sk.*:—Bradwell, *J. Priest in Hb. Geld*:—Oulton, *McAub.*

4. Thorpe; Cookley; Walpole; Walberswick; Mellis; Eye; Brome:—Redgrave, *C. J. Ashfield*:—Yaxley, *Sewell*:—Gt. Glemham and Stratford St. Andrews, *E.N.B.*:—Westleton, *F. Spalding*.

5. Orford; Bramford; Bromeswell; Felixstowe:—Ipswich, *Ips. Portf.*:—between Newbourne and Bucklesham, *Moor*:—Grundisburgh, *T.H.*:—Hemingstone, *T.B.*:—Ashbocking, *F.C.S.*:—Needham Market, *F. Clowes*:—Woodbridge and Sutton, *F. Spalding*:—Bawdsey Ferry, *Hb. Ly.*

Earliest record 1773. Sir J. Cullum.

Hypochaëris, Linn.

1. *H. glabra*, Linn.

Smooth Cat's-ear.

Bab. Man. 209, 10. Hook. St. Fl. 238. H. & S. 49. Hist. Bury. Top. Bot. Suff. E. and W.

Small annual; on sandy or gravelly heaths and commons.

June to August.

‘It is one of the earliest syngenesious plants that flower,’ *Dill. Ray in Hort. Oxon.*

1. Barnham ||; West Stow ||; Sapiston:—Mildenhall, *Hb. Blk.*:—‘very common in the neighbourhood of Bury,’ *Sir J. Cullum*:—Barton, *Sir T. G. Cullum*:—Tuddenham, *Hb. Sk.*:—Lakenheath Warren, *A.B.*:—Elveden, *E.F.L.*:—Brandon, *H. & S.*:—Cavenham; Icklingham; Eriswell; Santon Heath, *A.B.*

2. Thurlow, *F.*

3. Benacre and Covehithe:—Bungay, *Stock*:—Southwold, *Holmes*:—Lowestoft Denes, *E. Sk.*

4. Westleton; Thorpe:—Benhall Green and Gt. Glemham, *E.N.B.*

5. Aldeburgh and Barham, *H. & S.*:—Wherstead, *Haward.*

Earliest record 1773. Sir J. Cullum.

2. *H. radicata*, *Linn.* *Long-rooted Cat's-ear.*

Bab. Man. 210. Hook. St. Fl. 238. *H. & S.* 50. Hist. Fram.
Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 82.
Herbaceous perennial; frequent in meadows and pastures.
Common in all the districts. July.

Earliest record 1773. Sir J. Cullum.

3. *H. maculata*, *Linn.* *Spotted Cat's-ear.*

Bab. Man. 210. Hook. St. Fl. 238. *H. & S.* 50. Hist. Bury.
Top. Bot. Suff. W.
Herbaceous perennial; on chalky downs; rare.

July, August.

1. Cavenham ||, *Hb. Blk.*:—Risby Chalk-bank, *Rev. G. R. Leathes* in *Hb. Rk.*, also *Hb. Sk.*:—Icklingham, *Sir J. E. Smith*:—Newmarket, *Winch*: found as recently as 1876, *A.B.*

Earliest notice 1804. Sir T. G. Cullum.

Thrincia, *Roth.*

1. *T. hirta*, *DC.* *Leontodon hirtus*, *Linn.*

Hairy Thrincia.

Bab. Man. 210. Hook. St. Fl. 239. *H. & S.* 49. Hist. Yarm.
Top. Bot. Suff. E. and W. Galp. 83

Herbaceous perennial; on grassy heaths and pastures.

June to September.

1. Knettishall ||; Wangford and Brandon:—Walsham, *Hb. Dun.*:—Barton, *Sir C.J.F.B.*:—Barningham, *E.F.L.*:—Bradfield, *Hb. Ly.*

2. Hitcham, *Prof. Hens.*:—Cockfield, *W.J.*

3. Lowestoft ||; Hopton; Southwold; Benacre and Covehithe:—Bungay, *Sk. ms.*

4. Redgrave and Botesdale; Thorpe:—Gt. Glemham, *E.N.B.*

5. Aldeburgh; Shrubland Park; Felixstowe and Bawdsey.

Earliest notice 1834. Paget.

Leontodon, *Linn.*

1. *L. hispidus*, *Linn.* *Common Hawkbit.*

Bab. Man. 210. Hook. St. Fl. 239. H. & S. 49. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. and W.

Herbaceous perennial; in meadows and pastures.

Frequent in all the districts. June to September.

Earliest record 1773. Sir J. Cullum.

2. *L. autumnalis*, *Linn.* *Autumnal Hawkbit.*

Bab. Man. 211. Hook. St. Fl. 239. H. & S. 49. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. and W. Galp. 83.

Herbaceous perennial; in meadows and pastures.

Common in all the districts. August.

Earliest record 1773. Sir J. Cullum.

Tragopogon, *Linn.*

1. *T. minor*, *Fries.* *Lesser Goat's-beard.*

Bab. Man. 211. Hook. St. Fl. 243. H. & S. 49 (part). Hist.
Yarm. Top. Bot. Suff. E. and W. (part).

Biennial; in meadows and pastures. June, July.

1. Hopton ||; Haughley; Wetherden; Wangford;
Higham.

2. Nayland:—Kersey, *E.F.L.*

3. By the Ferry-house, Gorleston, *Paget.*

4. Darsham ||; Peasenhall:—Gt. Glemham, *E.N.B.*

5. Felixstowe:—Grundisburgh, *T.H.*

Earliest notice 1834. *Paget.*

2. *T. pratensis*, *Linn.* *Meadow Goat's-beard.*

Bab. Man. 211. Hook. St. Fl. 243. H. & S. 49. Hist. Fram.
Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 84.

Biennial; in meadows and pastures. June.

1. Bardwell; Honington; Timworth; Cavenham;
Brandon; Thetford:—Bury, *Hb. Sk.*:—Nowton, *Hb. Wils.*:
—Pakenham, *Hb. Cas.*:—Stowlangtoft, *Hb. Rk.*:—Westley
Bottom, *Hb. Blk.*:—Barton, *Sir C.J.F.B.*:—Fornham, *Sk.ms.*

2. Stoke and Melford:—Hitcham, *Hb. Hens.*:—Cock-
field, *W.J.*:—Hadleigh, *F. Spalding.*

3. Kessingland.

4. Oakley:—Mendham Hill, *Galp.*:—Huntingfield, *Hol-
land.*:—Framlingham, *Crabbe.*:—Westleton *F. Spalding.*:—
Brockford, *C. W. Peck.*

5. Alderton; Orford:—Gt. Bealings, *Moor.*:—Heming-

stone, *T.B.* :—Coddensham, *F. Fox* :—Ashbocking, *F.C.S.* :—Wherstead, *Haward* :—Needham Market, *Hb. Jeffes* :—Whitton and Bramford, *Miller*.

NOTE.—Some of the earlier references may belong to *T. minor*.
Earliest record 1773. Sir J. Cullum.

*3. *T. porrifolius*, *Linn.* *Salsafy.*

Bab. Man. 211. Hook. St. Fl. 243. H. & S. 49. Hist. Fram.

Biennial ; of repute as a vegetable ; apparently wild plants occasionally are found. June.

1. Honington :—meadows between Hawstead and Gt. Welnetham, *Mrs. Carss*.

2. In a meadow at Nayland, *Gray* :—Friar's Hill, Hadleigh, *F. Spalding*.

3. In a hedge at Bradwell, *Paget*.

5. Needham Market, *Miss Jeffes*.

Earliest record 1781. Sir J. Cullum.

Picris, *Linn.*

1. *P. hieracioides*, *Linn.* *Hawkweed Picris.*

Bab. Man. 211.12. Hook. St. Fl. 229,30. H. & S. 49. Hist. Fram.

Hist. Yarm. Hist. Bury. Top. Bot. Suff. E. and W. Galp. 82.

Biennial ; on dry banks. July to September.

1. Haughley || ; Woolpit ; Sapiston and Higham :—Hardwick, *Hb. Sk.* :—Stanton, *Hb. Cas.* :—Bury, *Sir J. Cullum* :—Felsham, *H. & S.* :—Barrow and Saxham, *Sk. ms.* :—Tuddenham, *Hb. Wils.*

2. Cockfield and Lavenham, *C.B.* :—Hitcham, *Hb. Hens.* :—between Boxford and Kersey :—Thurlow, *F.* :—Chevington and Whepstead, *Sk. ms.*

3. Mettingham :—Blundeston, *Paget* :—Lowestoft ; Pakefield ; Carlton Colville, *Sk. ms.* :—Flixton ; St. Margarets, *Galp.*

4. Darsham || ; Wortham :—Gt. Glemham ; Farnham and Sweffling, *E.N.B.* :—Framlingham, *Crabbe* :—Thorpe, *Hb. Ly.*

5. Lit. Blakenham, *Haward*.

b. P. arvalis, *Jord.*

Bab. Man. 212. Hook. St. Fl. 230.

1. Sapiston || ; Higham :—Elmswell, *J. Rasor*.

2. Gt. Thurlow, *Hb. F.* 4. Wortham ||.

Earliest record 1773. Sir J. Cullum.

Helminthia, Juss.

1. *H. echiioides*, Gært. *Picris echiioides*, Linn. *Ox-tongue*.

Bab. Man. 212. Hook. St. Fl. 230. H. & S. 49. Hist. Fram.
Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 82.

Tall annual; in woods and by hedge banks.

July to September.

1. Hinderelay Wood ||; Bury; Euston; Honington; Bardwell; Stanton; Wetherden; Haughley:—Pakenham, *Hb. Cas.*:—Stowlangtoft, *Hb. Rk.*:—Walsham, *Hb. Dun.*:—Felsham, *C.B.*:—Barton, *Sir C.J.F.B.*:—Hardwick, *Hb. Ly.*

2. Hoe Lane, Cockfield, *C.B.*:—Hitcham, *Hb. Hens.*:—Lit. Thurlow, *Hb. F.*:—Rede, *Hb. Turn.*:—Kersey, *E.F.L.*

3. Bungay; Belton; Kessingland:—Pakefield, *Dr. Trimen*:—Bradwell, *Paget*:—St. Margarets, *Galp.*

4. Gt. Glemham, *E.N.B.*:—Framlingham, *Crabbe*.

5. Bawdsey; Felixstowe and Walton:—Grundisburgh, *T.H.*:—Lit. Blakenham, *Haward*.

Earliest record 1773. Sir J. Cullum.

Lactuca, Linn.

1. *L. saligna*, Linn. *Willow Lettuce*.

Bab. Man. 212. Hook. St. Fl. 241. H. & S. 50. Top. Bot. Suff. E.
Biennial; in chalky soil near the sea. July, August.

5. Salt marshes at Aldeburgh, *H. & S. ??*

Earliest notice 1860. Henslow and Skepper.

2. *L. virosa*, Linn. *Acrid Lettuce*.

Bab. Man. 212. Hook. St. Fl. 240. H. & S. 50. Hist. Fram.
Hist. Yarm. Hist. Bury. Hist. Wher. Top. Bot. Suff. E. and W.
Biennial; on dry banks and old walls. July, August.

1. Bury; Ixworth Thorpe; Market Weston; Thel-netham:—Fornham St. Martin, *Hbb. Blk. & Wils.*:—Ixworth; Thurston, *Hb. Rk.*:—Rattlesden, *H. & S.*

2. Nayland ||, *Gray*:—Kersey, *E.F.L.*:—Hadleigh, *Dr. White*.

3. Fritton and Mettingham:—Lowestoft, *E. Sk.*:—Bungay, *Stock*.

4. Sibton and Covehithe:—Gt. Glemham and Sax-mundham, *E.N.B.*:—Framlingham, *Crabbe*:—Weybread, *H.B.C.*

5. Sproughton, *H. & S.*:—Felixstowe, *W. H. Purchas*:—Wherstead, *Haward*.

Earliest record 1773. Sir J. Cullum.

3. *L. Scariola*, Linn. *Prickly Lettuce*.
 Bab. Man. 212. Hook. St. Fl. 241. H. & S. 50.
 Biennial; in waste places; rare. July, August.
 1. Newmarket, *Winch*.
 5. On a bank at Coddendam? *F. Fox*: likely *L. virosa*.
 Earliest notice 1773. Sir J. Cullum.

4. *L. muralis*, DC. *Wall Lettuce*.
 Bab. Man. 212, 13. Hook. St. Fl. 241. H. & S. 50. Hist. Fram.
 Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 83.
 Herbaceous perennial; on dry banks and old walls.
 1. The Grundle, Stanton ||. July.
 2. Old walls near Hadleigh, *F. Spalding*:—Chevington
 and Groton, *H. & S.*:—Badmondifield Hall.
 3. Kessingland, *E.N.B.*:—Pakefield, *E. Sk.*:—com-
 mon near Bungay, *Dr. Woodward*:—St. Margarets, *Galp.*
 4. Framlingham, *Crabbe*:—Palgrave, *Collins*.
 5. Woolverstone.
 Earliest record 1773. Sir J. Cullum.

Taraxacum, Juss.

1. *T. officinale*, Wigg. *T. Dens-leonis*, Desf.
Dandelion.
 Bab. Man. 213. Hook. St. Fl. 240. H. & S. 50. Hist. Yarm.
 Hist. Wher. Top. Bot. Suff. E. and W. Galp. 83.
 Herbaceous perennial; in pastures and waste places.
 Common in all the districts. March to October.
b. T. lævigatum, DC.
 Bab. Man. 213. Hook. St. Fl. 240.
 5. Felixstowe ||.
c. T. erythrospermum, DC.
 Bab. Man. 213. Hook. St. Fl. 240.
 1. Honington ||; Elveden; Fornham All Saints;
 West Stow; Icklingham:—Mildenhall, *F. S. Marshall*.
d. T. palustre, Sm.
 Bab. Man. 213. Hook. St. Fl. 240.
 3. Marshes near Southtown, and on Bradwell and
 Hopton Commons, *D. Turner*:—Worlingham ||, *R. E. Leach*.
 4. Minsmere Marsh, near Sizewell.
 Earliest record 1773. Sir J. Cullum.

Sonchus, Linn.

1. *S. oleraceus*, Linn. *Common Sowthistle*.

Bab. Man. 213. Hook. St. Fl. 242. H. & S. 50. Hist. Fram.
 Hist. Wher. Top. Bot. Suff. E. and W. Galp. 83.
 Annual weed ; in cultivated fields and waste places.
 Frequent in all the districts. June to August.
 Earliest record 1773. Sir J. Cullum.

2. *S. asper*, Hoffm. *Rough Sowthistle.*
 Bab. Man. 213. Hook. St. Fl. 242. H. & S. 50. Top. Bot.
 Suff. E. and W. Galp. 83.
 Annual weed ; in cultivated fields and waste places.
 Frequent in all the districts. June to August.
 Earliest record 1773. (Included in *S. oleraceus*.)

NOTE.—Under the original *L. oleraceus*, Linn, three distinct forms are included. 1. *L. oleraceus*, as now received, with leaves flat, having sagittate auricles, and the lower part usually narrowed into an apparent petiole. 2, has leaves flat and usually wider than 1, but with rounded auricles. 3, has a stout striate stem, crisp and spinous leaves with rounded auricles. No. 2 is the most common form ; and No. 3, *S. asper*, is the least common form. On the sea-shore the plants are occasionally much stunted, and branched at the base, with fleshy spear-pointed leaves.

3. *S. arvensis*, Linn. *Corn Sowthistle.*
 Bab. Man. 213,14. Hook. St. Fl. 242. H. & S. 50. Hist. Yarm.
 Hist. Wher. Top. Bot. Suff. E. and W. Galp. 83.
 Herbaceous perennial ; in cultivated fields, waste places
 and fens. August, September.
 Frequent in all the districts.

S. glabra, Lond. Cat.

5. Landguard Fort ||.

Earliest record 1775. Sir J. Cullum.

4. *S. palustris*, Linn. *Marsh Sowthistle.*
 Bab. Man. 214. Hook. St. Fl. 242. H. & S. 50. Hist. Yarm.
 Top. Bot. Suff. E.
 Herbaceous perennial ; in marshes ; rare. July, Aug.
 3. Lothingland, *J. Sherard in Dill. Ray.* :—near Burgh
 Castle ||, *Hb. Blk.* :—river-side at Beccles and Worlingham,
Crabbe :—between Bungay and Shipmeadow, *Holmes* :—Oul-
 ton, *Hb. Sk.* :—Belton, *Phyt. 1862* :—near Mutford Bridge,
Sk. ms.

4. Palgrave, *Collins*.
5. The Cliff, Felixstowe? *Hb. Ly.*
Earliest record 1724. Sherard.

Mulgedium, *Cass.*

[*M. tataricum*, *DC.* First found in company of the Rev. J. D. Gray in autumn, 1884, on a marshy bank of the Stour at Stoke-by-Nayland. There were about a dozen plants. This, and various other exotic or rare plants in the neighbourhood, have likely been introduced with foreign grain brought to Nayland Mill. As the plant increases freely by underground stolons, and its present habitat is favourable to its spread, it is likely to become permanently established in its present locality. 1884. Hind.]

Crepis, *Linn.*

1. *C. taraxacifolia*, *Thuil.* *Dandelion-leaved*
Hawksbeard.

Bab. Man. 214. Hook. St. Fl. 231. H. & S. 50. Hist. Wher.
Top. Bot. Suff. E.

Herbaceous biennial; on chalky soil. June, July.

1. Woolpit || and Rougham ||, *J. Rasor*:—Bury, occasionally, *Sk. ms.*

4. Gt. Glemham and Framlingham, *E.N.B.*:—Parham, *Sk. ms.*

5. Marlesford, *H. & S.*:—Wherstead, *Haward*.

Earliest record 1860. Rev. E. N. Bloomfield.

2. *C. foetida*, *Linn.* *Fetid Hawksbeard.*

Bab. Man. 214, 15. Hook. St. Fl. 231. H. & S. 51. Hist. Bury.
Top. Bot. Suff. E. and W.

Herbaceous biennial; on chalky soil. June, July.

1. Gt. Saxham, and near the sixth milestone from Bury to Newmarket, *Sir T. G. Cullum*:—Brandon, *C.C.B.*

5. Claydon and Coddensham, *Crabbe*.

Earliest record 1804. Sir T. G. Cullum & Rev. G. Crabbe.

3. *C. virens*, *Linn.* *Smooth Hawksbeard.*

Bab. Man. 215. Hook. St. Fl. 230. H. & S. 51. Hist. Fram.
Hist. Wher. Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 82.

Annual weed; in meadows, pastures and waste places.

Common in all the districts. June to September.
Earliest record 1773. Sir J. Cullum.

4. *C. biennis*, Linn. *Biennial Hawksbeard.*

Bab. Man. 215. Hook. St. Fl. 230. H. & S. 51. Hist. Fram.
Hist. Bury. Top. Bot. Suff. E. and W.

Herbaceous biennial; on chalky soil. June, July.

1. Lee's fields, Bury, *Hb. Sk.*:—Railway banks at crossing near Eastgate, Bury, 1866, *Sk. ms.*:—Westley Bottom, *Sir T. G. Cullum*:—meadow North of Newmarket race-course ||.

5. Wherstead! *Haward.*

Earliest record 1773. Sir J. Cullum.

Hieracium, Linn.

1. *H. pilosella*, Linn. *Mouse-ear Hawkweed.*

Bab. Man. 216. Hook. St. Fl. 232. H. & S. 51. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. & W. Galp. 83.

Herbaceous perennial; on dry banks and commons.

Common in all the districts. May to August.

Earliest record 1773. Sir J. Cullum.

[*H. aurantiacum*, Linn. *Orange Hawkweed.*

Bab. Man. 216. Hook. St. Fl. 233.

On old walls; rare. June to August.

1. Old walls at Brandon, *W. J. Cross*, 1883. Walls have been repaired and the plants destroyed.
1883. *W. J. Cross.*]

21. *H. murorum*, Linn. *Wall Hawkweed.*

Bab. Man. 222. Hook. St. Fl. 234. H. & S. 51. Hist. Fram.
Top. Bot. Suff. E.

Herbaceous perennial; on rocks, walls, and in woods.

June, July.

1. The Wilderness, Bury || :—near Bury, *J. Rasor*:—
'Hamond's garden-wall, near R. Warren's house; old Bot.
Garden walls, wild; plentiful near Mr. Munn's house,' *Sk. ms.*

4. In lanes near Framlingham, but sparingly, *Crabbe?*

Earliest record 1773. Sir J. Cullum.

24. *H. vulgatum*, Fries. *Common Hawkweed.*

Bab. Man. 223. Hook. St. Fl. 236. Hist. Wher.

Herbaceous perennial; in woods, on banks and walls.

July to September.

1. Sapiston Grove||:—Old Botanical Gardens, wild,
Sk. ms.

2. Polstead. 4. Stuston, *Collins.*

5. Wherstead, *Haward.*

Form *H. maculatum*, Sm.

Bab. Man. 223. Hook. St. Fl. 236.

2. Sudbury, *Dr. White in Hb. Sk.*

Earliest notice 1862. E. Skepper.

30. *H. umbellatum*, Linn. *Umbellate Hawkweed.*

Bab. Man. 225. Hook. St. Fl. 237. H. & S. 51. Hist. Yarm.

Hist. Bury. Top. Bot. Suff. E. and W. Galp. 82.

Herbaceous perennial ; sandy heaths and stony places.

July to September.

1. A small neat form on grassy heath at Elveden || :—
Stanton Wood, *Hb. Blk.* :—Stowlangtoft, *Hb. Rk.* :—Bury,
Sir J. Cullum :—Woolpit, *J. Rasor.*

3. Hopton Cliff || ; Lound and Gorleston ; Beccles :—
Browston, *Paget* :—Bungay, *Stock* :—Lowestoft, *Hb. Sk. and*
Dr. Trimen :—Belton, *Sk. ms.* :—Benacre, *E.N.B.* :—Belton,
J. Priest in Hb. Geld.

4. Dunwich Cliff, *E.N.B.* :—Dunwich Heath, *W.J.* :
—Weybread, *H.B.C.* :—Blythburgh, *Ms. Davy.*

Earliest record 1773. Sir J. Cullum.

33. *H. boreale*, Fries. *Northern Hawkweed.*

Bab. Man. 225,6. Hook. St. Fl. 237. H. & S. X. Add. Hist.

Fram. Hist. Bury. Hist. Wher. Top. Bot. Suff. E.

Herbaceous perennial ; on banks. Aug. Sep.

1. The Grundle, Stanton || :—Barrett's Garden, Bury,
Hb. Sk. :—Pakenham, *Hb. Cas.* :—Barton, *Sir C.J.F.B.*

2. Wiston and Polstead, *Gray.*

4. Farnham, *H. & S.* :—Framlingham, near Easton,
Crabbe.

5. Ipswich, *W.L.N.* :—Bentley ; Bucklesham and Otley,
H. & S. :—Wherstead, *Haward.*

Earliest record 1777. Sir J. Cullum.

AMBROSIACEÆ, Link.

Xanthium, Linn.

[X. strumarium, Linn.

Broad-leaved Burweed.

Bab. Man. 226. Hook. St. Fl. App. 532.

Exotic annual; a rare casual, on rich waste land.

August September.

1. Drinkstone, *Mrs. Parker, fide C.B.*]

CAMPANULACEÆ.

Jasione, *Linn.*

1. *J. montana*, *Linn.* *Sheep's Scabious.*

Bab. Man. 228. Hook. St. Fl. 245. H. & S. 52. Hist. Fram.

Hist. Yarm. Top. Bot. Suff. E. & W. Galp. 84.

Herbaceous biennial; on dry banks and heaths. July.

Barnham ||; Brandon ||; Fakenham; Sapiston; Market
Weston:—Barton, *Hb. Blk.*:—Icklingham, *Hb. Sk.*:—Stow-
langtoft, *Hbb. Cas. & Rk.*:—Tuddenham, *Hb. Wils.*:—Bury,
Sir. J. Cullum:—Mildenhall, *Sir C.J.F.B.*:—Culford Heath,
Gray:—Cavenham, *Rev. F. Tearle*:—West Stow, *Hb. Ly.*

2. *Rede, Hb. Turn.*

3. Benacre and Covehithe:—Belton, *Sk. ms.*:—below
Homersfield Church, *Galp*:—Hopton, *J. Priest in Hb. Geld.*

4. Westleton:—Farnham and Gt. Glemham, *E.N.B.*:
—Wenhaston Heath, *W.J.*:—Framlingham, *Crabbe*:—Mend-
ham, *H.B.C.*:—Stuston Common, *Collins*:—Weybread, *Galp.*

5. Aldeburgh, *Hb.F.*:—Grundisburgh, *T.H.*:—Creeting,
T.B.

Earliest record 1773. Sir J. Cullum.

Campanula, *Linn.*

1. *C. glomerata*, *Linn.* *Clustered Bell-flower.*

Bab. Man. 228,9. Hook. St. Fl. 248. H. & S. 52. Hist. Bury.

Top. Bot. Suff. W.

Herbaceous perennial; in chalky pastures. July, Aug.

1. Barton Park, *Hb. Blk.*:—Mermaid Pits, Bury, *Hb.*
Wils.:—Mildenhall, *Hb. Dun.*:—Sicklesmere, *Hb. Sk.*:—
Saxham and Westley, *H. & S.*:—Gazeley, *Rev. F. Tearle*:—
Dalham; Barrow; Livermere; Ickworth Park gravel-pits;
Ixworth, *Sk. ms.*

2. Haverhill, *Hb. F.*:—Polstead, *H. & S.*

Earliest record 1773. Sir J. Cullum.

2. *C. latifolia*, *Linn.* *Giant Bell-flower.* *Throatwort.*

Bab. Man. 229. Hook. St. Fl. 247. H. & S. 52. Hist. Fram.

Top. Bot. Suff. E. ? Galp. 84.

Herbaceous perennial ; in woods and thickets.

July, August.

3. At Shipmeadow between Bungay and Beccles,
Woodward :—Chediston, *Trimmer* :—Mettingham, *Ms. Davy*.

4. Linstead Parva, near Halesworth, *Woodward*.

Earliest record 1805. *Woodward*.

3. *C. Trachelium*, *Linn.*

Nettle Bell-flower.

Bab. Man. 229. *Hook. St. Fl.* 247, 8. *H. & S.* 52. *Top. Bot.*
Suff. E. and W. *Galp.* 84.

Herbaceous perennial ; in thickets and on hedge banks.

July, August.

1. Stanton || ; Wetherden ; Shelland and Westley
Wood :—Welnetham, *C.B.* :—Barton, *Hb. Blk.* :—Drink-
stone, *Hb. F.* :—Hardwick, *Hb. Sk.* :—Pakenham, *Hb. Cas.* :
—Wicken ; Bardwell, *Hb. Dun.* :—Dalham, *Rev. F. Tearle* :
—Hawstead, *Sir J. Cullum* :—Felsham Wood, *W.J.* :—Bury,
J. Priest in Hb. Geld. :—Rattlesden, *H. & S.*

2. Acton :—Gt. Waldingfield, *C.B.* :—Hitcham, *Hb.*
Hens. :—Bures || ; Wiston, *Gray* :—Cockfield, *W.J.* :—Long
Melford, *J.F.W.* :—Sudbury, *J.S.H.* :—Polstead, *F. Spalding* :
—Hawkedon, *Hb. Turn.* :—Boxford, *H. & S.*

3. Bungay (now extinct), *Stock* :—St. Margarets,
(*E.A.H.*), *Galp.*

4. Gt. Glemham, *E.N.B.* :—Mendham, *H.B.C.*

5. Grundisburgh and Depden, *Moor* :—Hemingstone,
T.B. :—Shrubland, *Ips. Portf.* :—Lit. Blakenham, *Haward* :
—Nacton, *Miller*.

Earliest record 1773. *Sir J. Cullum*.

†4. *C. rapunculoides*, *Linn.*

Creeping Bell-flower.

Bab. Man. 229. *Hook. St. Fl.* 247.

Herbaceous perennial ; occasionally on waste and culti-
vated ground.

July, August.

1. Mildenhall || ; Honington || ; Railway Cutting, East-
gate || and Cotton Lane, Bury ; Stanton ; Troston and Ing-
ham :—Culford Heath, *Gray* :—Lakenheath, *G. C. Druce*,
Rec. Club, 1883.

3. Beccles.

4. Brockford, *C. W. Peck* :—Eye, *E. S. Marshall*.

First notice 1875. *Hind*.

5. *C. rotundifolia*, *Linn.*

Harebell.

Bab. Man. 229. Hook. St. Fl. 246. H. & S. 52. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. and W. Galp. 84.

Herbaceous perennial ; on dry banks, heaths and commons.
July, August.

Common in all the districts.

Earliest record 1773. Sir J. Cullum.

†C. *Rapunculus*, Linn.

Rampion.

Bab. Man. 230. Hook. St. Fl. 246. H. & S. 52. Top. Bot. Suff. E.
Biennial herb ; in sandy soil. July, August.

1. Rougham, *Hb. Cas.*

3. Hedges to the right of the road a mile from Beccles
towards Halesworth, *H. & S.*

Earliest record 1832. Mrs. Casborne.

Specularia, *Heist.*

1. *S. hybrida*, A. DC. *Hybrid Venus Looking-glass.*

Bab. Man. 230. Hook. St. Fl. 248. H. & S. 52. Hist. Bury.
Top. Bot. Suff. E. and W.

Small corn-field annual. June to September.

1. Ixworth Thorpe||; Honington; Fakenham:—Bury,
Hb. Wils.:—Pakenham, *Hb. Cas.*:—Barton and Mildenhall,
Sir C.J.F.B.:—Coney Weston, *E.F.L.*:—Woolpit, *J. Rasor.*

2. Great and Little Thurlow, *Hb. F.*:—Stoke:—Cock-
field, *C.B.*:—Hitcham, *Prof. Hens.*

3. Lake Lothing:—Lowestoft, *E. Sk.*

4. Benhall, *E.N.B.*:—Framlingham, *Crabbe*:—Pal-
grave, *Collins.*

5. Hemingstone, *T.B.*:—Wherstead, *Haward*:—Blax-
hall, *Mrs. Toller.*

Earliest record 1773. Sir J. Cullum.

ERICACEÆ.

Calluna, *Salisb.*

1. *C. vulgaris*, *Salisb.* *C. Erica*, DC. *Common Ling.*

Bab. Man. 233. Hook. St. Fl. 253. H. & S. 53. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. and W. Galp. 84.

Small shrub ; on heaths.

June to August.

Frequent in all the districts, except No. 2—the South-
west—from which no specimen has been reported.

Form *b.* *C. incana.*

Auct. Lond. Cat. 918. b.

3. Between Lowestoft and Corton, near the sea, 1857.

Sir C.J.F.B.

Earliest record 1773. Sir J. Cullum.

Erica, Linn.

1. *E. Tetralix*, Linn. *Cross-leaved Heath.*

Bab. Man. 233,4. Hook. St. Fl. 252. H. & S. 53. Hist. Yarm.

Top. Bot. Suff. E. and W.

Small shrub ; on moist or boggy heaths. July, Aug.

1. Brandon :—Tuddenham, *Hb. Wils.* :—Cavenham and Mildenhall, Sir C.J.F.B. :—Wangford, *H. & S.*

3. Belton || ; Benacre ; Covehithe ; Easton Bavent :—Lowestoft, *F.* :—Lound, *H. & S.* :—Southwold, *Hb. Dun.*

4. Dunwich || ; Westleton ; Walberswick ; Redgrave Fen, *Collins.*

5. Rushmere, *Ips. Portf.* :—Aldeburgh, *T.B.* :—near Ipswich, *H. & S.*

Apparently absent from district 2.

Earliest record 1773. Sir J. Cullum.

3. *E. cinerea*, Linn. *Fine-leaved Heath.*

Bab. Man. 234. Hook. St. Fl. 252,3. H. & S. 53. Hist. Yarm.

Top. Bot. Suff. E. and W.

Small shrub ; on dry heaths. July, August.

1. Tuddenham, *Hb. Wils.* :—Cavenham, *Sk. ms.* :—Mildenhall, Sir C.J.F.B.

3. Gorleston ; Belton ; St. Olaves ; Easton Bavent ; Covehithe and Benacre :—Herringfleet, *Hb. Dun.* :—Lowestoft, *Hbb. Cas. & Sk.* :—Oulton, *McAub.*

4. Dunwich || ; Westleton ; Thorpe ; Sizewell ; Walberswick :—Snape, Sir C.J.F.B. :—Redgrave Fen, very sparingly, *Collins.*

5. Woodbridge, *H.M.S.* :—Naeton Heath, *Haward* :—Tunstall, *E.N.B.* :—Ipswich, *Miller* :—Aldeburgh :—Martlesham, *Hb. Ly.*

Seems to be absent from district 2.

Earliest record 1833. Hb. Wilson.

Vaccinium, Linn.

4. *V. Oxycoccos*, Linn.

Cranberry.

Bab. Man. 236. Hook. St. Fl. 250. H. & S. 52. Top. Bot. Suff. E.

Small trailing shrub ; in bogs ; very rare. June, July.

1. Wangford, *Eagle*?

3. Worlingham Common, near Beccles, *Woodward and Ms. Davy*. Earliest record 1805. Woodward.

Pyrola, Linn.

1. *P. rotundifolia*, Linn. *Larger Winter-green*.

Bab. Man. 236. Hook. St. Fl. 256. H. & S. 53. Top. Bot. Suff. E. (extinct.)

Herbaceous perennial ; in damp bushy places. Aug.

3. On Bradwell Common, among furze ; meadows at Gorleston, *Wigg*.

4. Ashen Spring, near the round-house, Theberton, *H. & S.* :—Middleton, *Sir J. E. Smith*.

Earliest record 1800. *Wigg*.

Monotropa, Linn.

1. *M. Hypopitys*, Linn. *Hypopitys multiflora*, Scop.

Yellow Bird's Nest.

Bab. Man. 237. Hook. St. Fl. 257. H. & S. 53. Top. Bot. Suff. E. and W. Galp. 85.

Herbaceous perennial ; in woods ; rare. July, Aug.

1. Ickworth Park, *C.B. & Hb. Sk.* :—Horton Spinney, Barnham, *Hb. Salm*.

2. Lidgate, *Rev. F. Tearle*.

3. Bungay, *Stock*.

4. Redgrave Park, *Collins*.

Earliest record 1835. D. Stock.

AQUIFOLIACEÆ.

Ilex, Linn.

1. *I. Aquifolium*, Linn. *Holly*.

Bab. Man. 238. Hook. St. Fl. 85, 6. H. & S. 55. Top. Bot. Suff.

Evergreen tree ; in woods and hedges. June to Aug.

Frequent in all the districts ; especially fine in some parts of district 5—the South-east.

Earliest record 1696. Dale.

OLEACEÆ.

Ligustrum, Linn.

1. *L. vulgare*, Linn.

Privet.

Bab. Man. 238. Hook. St. Fl. 267. H. & S. 55. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. and W. Galp. 86.

Shrub, frequently evergreen; in woods and hedges—
often planted. June, July.

1. Barnham; Fakenham; Honington; Ixworth
Thorpe; Livermere; Knettishall ||; Wetherden; Elveden;
Tuddenham; Barton Mills; Wangford; Mildenhall:—
Bury, *Hb. Wils.*:—Pakenham, *Hb. Blk.*:—Walsham, *Hb.*
Dun.

2. Nayland; Stoke; Acton and Clare:—Hitcham,
Hb. Hens.:—Rede, *Hb. Turn.*:—ThurLOW, *Hb. F.*:—Cock-
field, *W. J.*:—Kersey, *E.F.L.*:—Sudbury, *Fulcher.*

3. Bungay; Gorleston; Kessingland and Benacre.

4. Burgate and Oakley.

5. Stutton; Shrubland Park:—Ashbocking, *F.C.S.*:
—Wherstead, *Haward.*

Earliest record 1773. Sir J. Cullum.

Fraxinus, Linn.

1. *F. excelsior*, Linn. *Ash.*

Bab. Man. 238. Hook. St. Fl. 267,8. H. & S. 55. Hist. Yarm.
Top. Bot. Suff. E. and W. Galp. 86.

Tall and valuable timber tree; in woods and hedge-
rows. April, May.

Frequent in all the districts.

Earliest record 1773. Sir J. Cullum.

APOCYNACEÆ.

Vinca, Linn.

†1. *V. minor*, Linn. *Lesser Periwinkle.*

Bab. Man. 239. Hook. St. Fl. 268. H. & S. 56. Hist. Yarm.
Hist. Bury. Top. Bot. Suff. E. and W. Galp. 86.

Trailing perennial, evergreen; in woods and thickets.

May, June.

1. Fakenham Wood ||; Market Weston and Stanton:
—Bradfield, *Hb. Sk.*:—Pakenham, *Hb. Cas.*:—Rougham,
Hb. Blk.:—Gt. Welnetham, *Sir T. G. Cullum*:—Hunston,
Hb. Ek.:—Norton, *J. Rasor.*:—Rushbrooke, *H. & S.*

2. Hitcham, *Hb. Hens.*:—Assington, *Gray*:—Cock-
field, *W. J.*:—‘On the ancient British Camp at Lindsey, near
Hadleigh, *F. Spalding*:—Naughton, *H. & S.*:—Felsham
Wood, *Sk. ms.*

3. Fritton Wood, *Paget* :—Bungay, *Stock* :—Flixton, *H.B.C.* :—Oulton, *McAub* :—Belton, *J. Priest in Hb. Geld.*

4. Sibton, *Holland* :—Brockford, *Hb. Peck* :—Framlingham, *Haward* :—Yoxford and Kettleburgh Old Hall, *Ms. Davy.*

5. Boulge, *Moor* :—Ashbocking, *F.C.S.* :—Bergholt, *H. & S.* :—Battisford, *Sk. ms.* :—Whitton, *Miller.*

Earliest record 1773. Sir J. Cullum.

[2. *V. major*, *Linn.*

Greater Periwinkle.

Bab. Man. 239.

Hook. St. Fl. 269.

H. & S. 56.

Hist. Bury.

Galp. 86.

Trailing perennial, evergreen; in plantations, or escaped.
April, May.

1. Honington ||; Ixworth; Troston; Ampton; Euston; Hopton; Icklingham :—Thurston, *Hb. Rk.* :—Westley, *Hb. Wils.* :—Hawstead, *Sir J. Cullum* :—Santon Downham, *Nor-gate* :—Eriswell, *H. G. Glasspoole in Hb. Geld.*

2. Polstead :—Whepstead, *Hb. Wils.* :—Cockfield, *W.J.*

3. Gorleston and Kessingland :—Bungay, *H. & S.*

4. Brockford, *Hb. Peck* :—Weybread, *Galp.*

5. Henley, *Mr. Bryant, Dill. Ray in Hort. Ox.* :—Claydon, by the roadside, *H. & S.* :—St. Mary, Stoke, Ipswich, *Miller.*

Earliest record 1773. Sir J. Cullum.]

GENTIANACÆ.

Chlora, *Linn.*

1. *C. perfoliata*, *Linn.* *Blackstonia perfoliata*, *Huds.*
Perfoliate Yellow-wort.

Bab. Man. 240.

Hook. St. Fl. 270.

H. & S. 56.

Hist. Bury.

Top. Bot. Suff. E. and W.

Galp. 86.

An erect glaucous annual; chiefly on chalky soil.

July to September.

1. Honington ||; Haughley || :—Pakenham, *Hb. Cas.* :—Saxham, *Hb. Sk.* :—Stanton, *Hb. Dun.* :—Bury and Hawstead, *Sir J. Cullum* :—Rattlesden, *Mrs. Parker* :—Thurston, *Gray* :—Hardwick; Norton; Elmswell; Rougham and Felsham, *H. & S.* :—Barton Park, *Sk. ms.*

2. Melford :—Cockfield, *C.B.* :—Hitcham, *Hb. Hens.* :—Sudbury, *J.S.H.* :—Lit. Thurlow, *Hb. F.* :—Chevington; Brettenham; Lavenham; Naughton, *H. & S.*

3. St. Margarets towards Flixton, *Holmes* :—Bungay, *Stock*.

4. Gt. Glemham and Rendham. *E.N.B.* :—Yoxford. *Ms. Davy* :—Badingham, *T.W.G.* :—Hoxne, *Galp*.

5. Marlesford, *E.N.B.* :—Gt. Bealings, *Moor* :—Henley, *F. Fox* :—near Ipswich, *T.W.G.* :—Hemingstone, *T.B.* :—Flowton, *Dr. White*.

Earliest record 1773. Sir J. Cullum.

Erythræa, Renealm.

1. *E. pulchella*, *Fries.* *Dwarf-branched Centaury.*

Bab. Man. 240,1. Hook. St. Fl. 271. H. & S. 56.c. Hist. Yarm.
Top. Bot. Suff. E.

Annual; on the sea-shore, on sandy ground.

July to September.

3. Lowestoft, *Hb. Sk.* :—Gorleston Cliffs, *Paget* and *Ms. Davy*.

5. Aldeburgh, *Hb. Cas.* :—Woodbridge, *Hb. Rk.* :—Walberswick, *Ms. Davy*.

Earliest notice 1828. Davy.

2. *E. Centaurium*, *Pers.* *Common Centaury.*

Bab. Man. 241. Hook. St. Fl. 271. H. & S. 56.a. Hist. Fram.
Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 87.

Annual; not infrequent in dry pastures. July, Aug.

Frequent in all the districts.

Earliest record 1773. Sir J. Cullum.

4. *E. littoralis*, *Fries.* *Dwarf-tufted Centaury.*

Bab. Man. 241. Hook. St. Fl. 271. Top. Bot. Suff. E.

Annual; on sandy sea-shores, rarely inland. July, Aug.

1. Brandon ||; between Wangford and Lakenheath, *Bolton King*, fide G. E. Druce.

3. Lowestoft Denes, *Hb. Sk.* :—Gorleston Pier, *Sk. ms.*

4. Sizewell.

Earliest notice 1860. E. Skepper.

Gentiana, Linn.

1. *G. Amarella*, *Linn.* *Autumn Gentian. Felwort.*

Bab. Man. 242. Hook. St. Fl. 272. H. & S. 56. Hist. Bury.
Top. Bot. Suff. E. and W.

Annual; on dry chalky soil.

August, September.

1. Brandon || :—Chalk-pit, Stanton St. George, *Hb. Cas.*:—Thurston Heath, *Hb. Sk.*:—Bury and Hawstead, *Sir J. Cullum*:—on the heath near Barrow Bottom, *flore pleno*; in a chalk-pit at Lit. Saxham, *Sir T. G. Cullum*:—Rougham and Bradfield, *H. & S.*:—Risby and Felsham, *Sk. ms.*:—Barton Mills, *Sir C. J. F. B.*:—Newmarket Heath, *Rev. F. Tearle*:—Cavenham Heath, *Woodward*.

2. Long Melford, *J. F. W.*:—Rookseye Green, Preston; Acton and Chevington, *Sk. ms.*

5. Coddendam, *F. Fox*:—Bramford, *Miller*.

Earliest record 1773. Sir J. Cullum.

2. *G. campestris*, *Linn.*

Field Gentian.

Bab. Man. 242. Hook. St. Fl. 272. H. & S. 56. Hist. Bury. Top. Bot. Suff. W.

Annual; on dry chalky soil. August, September.

1. On Thurston Heath; Cavenham Severals; and Deadman's Green, near Hardwick, *Sir T. G. Cullum*:—Bury, *Sir J. Cullum*:—Bank on Icklingham Heath:—Rougham, *H. & S.*

2. Melford Wood? *J. F. W.*:—Hartest, *H. & S.*

Earliest record 1773. Sir J. Cullum.

5. *G. Pneumonanthe*, *Linn.*

Marsh Gentian.

Bab. Man. 243. Hook. St. Fl. 272. H. & S. 56. Top. Bot. Suff. E.

Annual; on moist turfy heaths. August, September.

3. Carlton Heath, near Lowestoft, *Woodward*:—Hopton and Corton Heaths, *Wigg*:—‘on moorish ground on left-hand side of road going from Yarmouth to Lowestoft, Sir Jno. Cullum.’ *Note in Dill. Ray in Hort. Or.*:—‘on moory heaths, at Herringfleet, two miles from Mildenhall (*sic*), Suffolk, and at Belton (*sic*), Suffolk, five miles South-west of Yarmouth, on September 28th, 1860,’ *W. Winter*, *Phyt.* 1861, p. 296. This authority is discredited by the mention of Mildenhall in connection with the North-east corner of Suffolk. It may have arisen from a lapse of memory, or a confusion of thought, but without a sufficient explanation it must be passed over as worthless. The plant is likely extinct in Suffolk.

Earliest record 1777. Sir J. Cullum.

Limnanthemum, Gmel.

- [1. *L. nymphæoides*, Link. *L. peltatum*, Gmel.

Bab. Man. 243. Hook. St. Fl. 273.

Floating herbaceous perennial; in rivers; not a native of Suffolk. July, August.

1. Ickworth Park, likely introduced, *Blackett*:—Tud-denham, ? *Sk. ms.*

2. Sudbury, *J.S.H.*

3. Somerleyton, ? *Sk. ms.*

Earliest notice 1773. Sir J. Cullum.]

Menyanthes, Linn.

1. *M. trifoliata*, Linn. *Marsh Buckbean or Bogbean.*

Bab. Man. 243. Hook. St. Fl. 273. H. & S. 57. Hist. Fram.

Hist. Yarm. Hist. Bury. Top. Bot. Suff. E. and W. Galp. 87.

Herbaceous perennial; in marshes and fens.

May to July.

1. Hopton ||; Coney Weston ||; Market Weston; Sapiston; Barnham Heath; Santon Downham; Brandon; Icklingham:—Pakenham, *Hb. Cas.*:—Tuddenham Bog, *Hb. Blk.*:—Mildenhall, *Sir C.J.F.B.*:—Tostock, *J. Rasor*:—West Stow and Higham, *H. & S.*:—Lackford, *E. Sk.*

2. Cornard Mere, *J.S.H.*:—Sudbury, *Fulcher.*

3. Belton; Beccles:—Oulton, *McAub.*:—Bungay, *H. & S.*:—Fritton; Somerleyton and Benacre, *Sk. ms.*:—Stow Fen, near Earsham, *H.B.C.*:—Worlingham, *R. E. Leach.*

4. Redgrave Fen:—Benhall Green, *E.N.B.*:—Size-well, *Hele*:—Framlingham, *Crabbe.*

5. Baylham, *T.B.*:—near Ufford Water Mill, *F. Spal-ding.*

Earliest record 1773. Sir J. Cullum.

POLEMONIACEÆ.

Polemonium, Linn.

- [1. *P. cæruleum*, Linn. *Jacob's Ladder.*

Bab. Man. 243,4. Hook. St. Fl. 274.

Herbaceous perennial; doubtless a garden stray. July.

1. Woolpit, *Mrs. Parker.*]

CONVOLVULACEÆ.

Convolvulus, *Linn.*

1. *C. arvensis*, *Linn.* *Field Bindweed.*

Bab. Man. 244. Hook. St. Fl. 284. H. & S. 57. Hist. Yarm.
Top. Bot. Suff. E. and W. Hist. Wher. Galp. 88.

Herbaceous trailing perennial; in fields and sandy banks. June to August.

Frequent in all the districts.

Earliest record 1773. Sir J. Cullum.

2. *C. sepium*, *Linn.* *Calystegia sepium*, R. Brown. *Hedge Bindweed.*

Bab. Man. 244. Hook. St. Fl. 284. H. & S. 57. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. and W. Galp. 88.

Herbaceous climbing perennial; in hedges and thickets.
A rose-coloured variety sent from Badingham by Mrs. Marriott, of Wilby. July, August.

Frequent in all the districts.

Earliest record 1773. Sir J. Cullum.

3. *C. Soldanella*, *Linn.* *Calystegia Soldanella*, R. Brown. *Sea-side Convolvulus.*

Bab. Man. 245. Hook. St. Fl. 285. H. & S. 57. Hist. Yarm.
Top. Bot. Suff. E.

Herbaceous trailing perennial; on sandy sea-shores.

June to August.

3. Lowestoft ||; Kessingland and Benacre.

4. Dunwich:—Thorpe, *Hb. Ly. & Hele*:—Aldringham,
Ms. Davy:—near Sizewell, *Mrs. Toller*.

5. Felixstowe:—Aldeburgh, *Moor*:—Ramsholt, *Sir J. Cullum*:—Walton, *F*.

Earliest record 1773. Sir J. Cullum.

Cuscuta, *Linn.*

1. *C. europæa*, *Linn.* *Greater Dodder.*

Bab. Man. 245. Hook. St. Fl. 285. H. & S. 57. Top. Bot.
Suff. E. and W.

Herbaceous climbing annual; parasitical on hops, nettles, &c.; leafless. August, September.

1. Bury ||, *C.B.*, also *Hbb. Blk. & Sk.*:—on hops in a hedge near Bury Gaol, *Sir C.J.F.B.*

2. Semer, *Hbb. Rk. & Dun.*:—Lavenham, *Hb. F.*:—on nettles at Haverhill, *F.*:—plentifully on hops in a hedge by Holbecks, Hadleigh, *F. Spalding*:—Whatfield, *H. & S.*

5. Hemingstone, *T.B.*:—Barking, *Miss Jeffes.*

Earliest record 1773. Sir J. Cullum.

[**C. Epilinum**, *Weihe.*

Flax Dodder.

Bab. Man. 245. Hook. St. Fl. 285. H. & S. 57.

Climbing annual; parasitical on flax; leafless. Aug.

4. On flax at Framlingham, *H. & S.*

Earliest record 1860. Henslow and Skepper.]

2. **C. Epithymus**, *Murr.*

Lesser Dodder.

Bab. Man. 245. Hook. St. Fl. 285.

H. & S. 57.

Hist. Yarm.

Hist. Bury. Top. Bot. Suff. E. and W.

Galp. 89.

Creeping annual; parasitical on thyme, heath, or gorse.

July to September.

1. Troston || and Knettishall || Heaths:—Tuddenham, *Hb. Sk.*:—Bury, Rougham, and West Stow, *E. Sk.*

2. Thorpe Morieux, Aug. 1884, *C.B.*

3. Bungay, *Stock*:—Belton, on Ling, *Paget*:—Lowestoft, *E. Sk.*:—Oulton, *McAub.*:—Gunton Hills, *Miss Jeffes.*

4. Sizewell Heath:—Dunwich Heath, *Hb. Cas.*:—Snape Heath, *E.N.B.*:—Westleton Heath, *Ms. Davy.*

Earliest notice 1804. Sir T. G. Cullum.

†3. **C. Trifolii**, *Bab.*

Clover Dodder.

Bab. Man. 245, 6. Hook. St. Fl. 285. Galp. 89.

Climbing annual; parasitical on clover. July to Sep.

1. Fakenham; Honington:—Bury, *Hb. Sk.*:—Amp-ton, *W.J.*:—Thurston, *Sk. ms.*

2. Cockfield and Thorpe Morieux, *C.B.*:—Hitcham, *Hbb. Hens., Rk. & Dun.*:—Nayland ||, *Gray.*

3. St. Margarets (E.A.H.), *Galp.*

4. Gt. Glemham, *E.N.B.*:—Weybread, *H.B.C.*:—Wetheringsett, *Hb. Peck.*

5. Stutton:—Aldeburgh, *T.B.*

Earliest notice 1837. Prof. Henslow.

BORAGINACEÆ.

Asperugo, *Linn.*

†1. **A. procumbens**, *Linn.*

Madwort.

Bab. Man. 247, 8. Hook. St. Fl. 282. H. & S. 59. Top. Bot. Suff. E. (mistaken for W.)

Procumbent annual ; on rich waste ground ; rare.

June, July.

1. Gazeley, 'In my garden, June 5, 1875. The only time I ever saw the plant,' *Rev. F. Tearle* :—Wangford, *Hb. Cas. & F. Eagle, jun.* :—near Newmarket, *Dill. Ray* :—Churchyard, Newmarket, *Ms. Davy*.

2. Melford, *C.B.*

1724. Dillenius.

[*Echinosperrum Lappula*, *Lehm.* A foreign casual ; annual.

4. Southwold, *Bab. Man.* Ed. 7, p. 241 :—'Between Southwold and the pier, found from 1839 to 1848 ; now appears to be extinct,' *Holmes*.]

Cynoglossum, *Linn.*

1. *C. officinale*, *Linn.*

Common Hound's-tongue.

Bab. Man. 248. Hook. St. Fl. 283. H. & S. 59. Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 87.

Biennial weed ; by roadsides and waste places.

June, July.

1. Bury ; Culford ; Ampton ; Livermere ; Euston ; Fakenham ; Rushford ; Hinderclay ; Stowlangtoft ; Thetford ; Elveden ; Brandon :—Barnham and Bradfield St. Clare, *C.B.* :—Walsham, *Hb. Dun.* :—Culford Heath, *Gray* :—Tuddenham, *Hb. Wils.* :—Mildenhall, *Sir C.J.F.B.* :—Cavenham, *W.J.* :—Tostock, *J. Rasor* :—Onehouse Wood, *Mrs. Terry* :—Ashfield, *Hb. Rk.* :—Icklingham ; Wangford ; Santon Downham ; Saxham ; Barton, *Sk. ms.* :—Pakenham, *Hb. Cas.* :—Gedding, *F.* :—West Stow, *H. & S.* :—Rushbrooke, *Hb. Ly.*

2. Acton Sand-pit, *C.B.* :—Preston and Thorpe Morieux, *W.J.* :—Hitcham, *Hb. Hens.* :—Wixoe, *Hb. F.* :—Melford, *J.F.W.* :—Hadleigh, *F. Spalding*.

3. Beccles :—near Corton, *Phyt. 1862* :—Lowestoft, *H. & S.* :—Oulton, *McAub.* :—St. Margarets, *Galp* :—Belton, *H. G. Glasspoole in Hb. Geld.*

4. Walberswick :—between Saxmundham and Leiston, *Dr. Taylor* :—Ubbeston, *Holland* :—Gt. Glemham, *H. & S.* :—Knodishall, *E.N.B.* :—Wortham and Oakley, *Collins*.

5. Shrubland Park ; Orford :—Gt. Bealings, *Moor* :—Grundisburgh, *T.H.* :—Melton, *F. Spalding* :—Hemingstone,

T.B. :—Ashbocking, *F.C.S.* :—Needham Market, *E. Clowes* :
 —Lit. Blakenham, *Haward* :—Bramford, *Miller*.
 Earliest record 1773. Sir J. Cullum.

Borago, *Linn.*

*1. *B. officinalis*, *Linn.* *Common Borage.*

Bab. Man. 248. Hook. St. Fl. 276, 7. H. & S. 59. Hist. Fram.
 Hist. Yarm. Hist. Wher.

Large biennial herb ; on waste ground occasionally.

June, July.

1. Honington || :—Pakenham, *Hbb. Blk., Cas. & Rk.* :
 —Langham, *Hb. Dun.* —Culford, *Gray*.

2. Nayland :—Hitcham, *Hb. Hens.* :—Stoke-by-Clare,
Hb. F. :—Sudbury, *J.S.H.* :—Kersey, *Sk. ms.* :—Monk's
 Eleigh, *Rev. P. Lathbury*.

3. Belton, *Phyt.* 1862 :—Gorleston, *J. Priest in Hb.*
Geld.

4. Framlingham, *Crabbe* :—Debenham, *Hb. Peck.*

5. Burgh, near Woodbridge, *Moor* :—Hemingstone,
T.B. :—Wherstead, *Haward*.

Earliest record 1773. Sir J. Cullum.

Anchusa, *Linn.*

†1. *A. officinalis*, *Linn.* *Common Alkanet.*

Bab. Man. 248. Hook. St. Fl. 278. H. & S. 58.

Herbaceous perennial ; on waste ground ; rare.

June, July.

5. Gt. Bealings, *Moor* :—Bergholt, *H. & S.*

Earliest notice 1840 ? Rev. E. J. Moor.

†2. *A. sempervirens*, *Linn.* *Evergreen Alkanet.*

Bab. Man. 248. Hook. St. Fl. 278. H. & S. 58. Hist. Fram.

Hist. Yarm. Hist. Bury. Galp. 87.

Herbaceous perennial ; by old walls ; rather rare.

May to August.

1. Livermere || :—Hawstead ; 'By the old wall at the
 back of the Tanner's garden in the Southgate Street,' Bury,
Sir. J. Cullum :—'Bury, in the lanes near Haberden,' *Sir T.*
G. Cullum. :—Tostock, *Mrs. Terry*.

2. Clare :—Nayland, *Gray*.

3. Burgh Castle (now extinct), *Wigg* :—Flixton, *H.B.C.* :
 —Gorleston, *J. Priest in Hb. Geld.*

4. Yaxley, *Rev. W. Sewell*, sp. *C.B.*:—Framlingham and Parham, *Crabbe*:—Walpole, *Sir J. E. Smith*.

5. Between Ipswich and Woolverstone, *Hb. Rk.*:—Bergholt, *H. & S.*

Earliest record 1773. Sir J. Cullum.

Lycopsis, *Linn.*

1. *L. arvensis*, *Linn.* *Anchusa arvensis*, *Bieb.*

Bugloss.

Bab. Man. 249. Hook. St. Fl. 277. H. & S. 58. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. and W. Galp. 87.

Annual weed; usually in cultivated ground. June, July.

Frequent in all the districts.

Earliest record 1773. Sir J. Cullum.

Symphytum, *Linn.*

1. *S. officinale*, *Linn.* *Common Comfrey.*

Bab. Man. 249. Hook. St. Fl. 277. H. & S. 59. Hist. Fram.
Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 87.

Large herbaceous perennial; usually by ditches or streams. May, June.

Frequent in all the districts.

S. patens, *Sibth.*

Bab. Man. 249. Hook. St. Fl. 277.

1. Vine-fields, Bury ||; Stanton ||; Brandon.

2. Stoke and Nayland. 3. Benacre.

4. Mendham Pit; roadside between Weybread and Wingfield, *Galp.*

5. Woolverstone:—beside the Fynn, *Moor.*

Earliest record 1773. Sir J. Cullum.

[*S. orientale*, *Linn.*, is established in a grove in Tendring Park, Stoke-by-Nayland ||: it has been found near Ipswich ||, *Ips. Portf.*; and *S. tauricum*, *Willd.*, is established in a copse between Bury and Barton ||; also in a plantation at Bradfield Manger, *W.J.*]

Echium, *Linn.*

1. *E. vulgare*, *Linn.* *Common Viper's Bugloss.*

Bab. Man. 249. Hook. St. Fl. 276. H. & S. 57. Hist. Fram.
Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W.

Biennial herb ; usually in light sandy soil. June, July.
Frequent in all the districts.

A form with bright pink flowers from Tuddenham in
Hb. Wils. White, pink, red, purple, and blue varr. at San-
ton Downham, *Norgate*.

Earliest record 1773. Sir J. Cullum.

Pulmonaria, *Linn.*

P. officinalis, *Linn.*

Common Lungwort.

Bab. Man. 249,50. Hook. St. Fl. 279,80.

Herbaceous perennial ; in woods and thickets.

April, May.

4. Burgate Wood ||, *C. J. Ashfield*, *Phyt.* 1862, p. 351 :
—Stubbing's Grove, Botesdale.

Mr. Ashfield says, ' I think there can be no doubt about
its being a genuine wild locality ; for the plant is plentiful,
it grows far in the interior of an extensive wood, and has as
much the appearance of being truly wild as any of the plants
near it.' The wood was visited in the spring of 1885, and
the plant was found in profusion ; and, in less quantity, in
Stubbing's Grove, about a mile to the Westward. The wild
plant differs from the cultivated form, in having the leaves
unspotted, or very faintly so. This may account for its hav-
ing been passed over by the simplers, and left to enjoy its
native shade.

Earliest record 1862. C. J. Ashfield.

Lithospermum, *Linn.*

1. *L. officinale*, *Linn.*

Common Gromwell.

Bab. Man. 250. Hook. St. Fl. 278,9. H. & S. 58. Hist. Fram.

Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 88.

Herbaceous perennial ; usually on dry banks.

June to August.

1. Market Weston || ; Fakenham Wood ; Ixworth
Thorpe ; Sapiston ; Wattisfield ; Ingham ; Livermere :—
Felsham, *C.B.* :—Bury, *Hb. Cas.* :—Hardwick, *Hb. Sk.* :—
Pakenham, *Hb. Blk.* :—Walsham, *Hb. Dun.* :—Hawstead,
Sir J. Cullum :—Tostock, *Mrs. Terry*.

2. Acton sand-pit and Cockfield, *C.B.* :—Hitcham,
Hb. Hens. :—Chilton, *J.F.W.*

3. Burgh Castle, *Paget* :—St. Margarets, *Galp.*

4. Burgate, *C. J. Ashfield* :—Gt. Glemham, *E.N.B.* :—Ubbeston, *Holland* :—Framlingham, *Crabbe*.

5. Shrubland :—Gt. Bealings, *Moor* :—Gosbeck, *F. Fox* :—Bramford, *I.S. Soc.* :—Ashbocking, *F.C.S.* :—Lit. Blakenham, *Haward* :—Melton, *Hb. Ly.*

Earliest record 1773. Sir J. Cullum.

3. *L. arvense*, *Linn.*

Corn Gromwell.

Bab. Man. 250. Hook. St. Fl. 279. H. & S. 58. Hist. Fram. Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 88.

Annual ; in corn-fields ; preferring a light soil.

May to July.

1. Troston || ; Honington ; Cavenham :—Bury, *Hb. Sk.* :—Tuddenham, *Hb. Wils.* :—Barton and Mildenhall, *Sir C.J.F.B.* :—Livermere, *Gray* :—Westley ; Risby and Felsham, *Sk. ms.*

2. Nayland ; Wiston :—Hitcham, *Prof. Hens.* :—Cockfield, *W.J.* :—ThurLOW, *Hb. F.*

3. Bungay, *H. & S.* :—Oulton, *McAub.* :—St. Margarets, *Galp.*

4. Framlingham, *Crabbe* :—Ubbeston, *Holland* :—Mendham, *H.B.C.*

5. Claydon, *F.C.S.* :—Hemingstone, *T.B.*

Earliest record 1773. Sir J. Cullum.

Myosotis, *Linn.*

1. *M. palustris*, *With.*

Water Scorpion Grass.

Forget-me-not.

Bab. Man. 250,1. Hook. St. Fl. 280. H. & S. 58. Hist. Yarm. Top. Bot. Suff. E. and W. Hist. Wher. Galp. 88.

Herbaceous perennial ; edge of ditches and streams.

Frequent in all the districts.

June to August.

b. M. strigulosa, *Reichb.*

Bab. Man. 251. Hook. St. Fl. 280,1.

1. Fakenham ||. 3. Fritton.

Earliest record 1773. Sir J. Cullum.

2. *M. repens*, *Don.*

Creeping Scorpion Grass.

Bab. Man. 251. Hook. St. Fl. 281. Galp. 88.

Herbaceous creeping perennial.

June to August.

3. St. Margarets (*E.A.H.*) *Galp.* This plant has not hitherto been recognised as a native of this or any of the

three contiguous counties. The authority for it is most respectable. It is desirable that it should be verified by a specimen.

3. *M. cæspitosa*, *Schultz.* *Cæspitose Scorpion Grass.*

Bab. Man. 251. Hook. St. Fl. 281. H. & S. 58. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. & W. Galp. 87.

Herbaceous perennial; in shallow streams.

Frequent in all the districts.

June to August.

Earliest notice 1834. Paget.

5. *M. silvatica*, *Ehrh.* *Wood Scorpion Grass.*

Bab. Man. 251. Hook. St. Fl. 281. H. & S. 58. Hist. Wher.
Top. Bot. Suff. E. and W. Galp. 88.

Herbaceous perennial; in woods; somewhat rare.

May, June.

1. Rougham, *Hb. Blk.*:—Nowton, *Hb. Wils.*:—Hawstead, *E. S. Marshall.*

2. Brettenham || *C.B.*:—Hitcham, *Hb. Hens.*:—Brent Eleigh, *W.J.*:—Whepstead, *E. S. Marshall.*

3. Flixton, *H.B.C.* 4. Huntingfield ||, *Holland.*

5. Otley? *E.N.B.*:—Bentley, *I. S. Soc.*:—Bricet, *H. & S.*:—Wherstead, *Haward*:—Barking Woods, *Miss Jeffes.*

Earliest notice 1831. Mrs. French.

6. *M. arvensis*, *Lehm.* *Field Scorpion Grass.*

Bab. Man. 252. Hook. St. Fl. 281. H. & S. 58. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. and W. Galp. 88.

Annual weed; in corn-fields and woods. June to Aug.

Frequent in all the districts.

b. M. umbrosa, Bab.

Bab. Man. 252. Hook. St. Fl. 282.

1. Fakenham ||:—Barton, *Sir C.J.F.B.* 2. Wiston.

Earliest record 1773. Sir J. Cullum.

7. *M. collina*, *Hoffm.* *Dwarf Scorpion Grass.*

Bab. Man. 252. Hook. St. Fl. 282. H. & S. 58. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. & W. Galp. 88.

Small annual; on dry banks.

April, May.

In all the districts.

b. M. Mittenii, Lond. Cat.

Hook. St. Fl. 282.

1. Thetford Heath ||:—Culford Heath, *Gray*:—Fakenham, *E.F.L.*

Earliest notice 1835. D. Stock.

8. *M. versicolor*, *Reich.* *Variable Scorpion Grass*
 Bab. Man. 252. Hook. St. Fl. 282. H. & S. 58. Hist. Fram.
 Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 88.
 Small annual; on banks and dry places. May, June.
 Frequent in all the districts.
 Earliest notice 1798. Rev. G. Crabbe.

SOLANACEÆ.

Solanum, *Linn.*

1. *S. nigrum*, *Linn.* *Black Nightshade.*
 Bab. Man. 253. Hook. St. Fl. 287. H. & S. 60. Hist. Yarm.
 Hist. Wher. Top. Bot. Suff. E. and W. Galp. 89.
 Annual weed; in waste and cultivated ground.
 July to September.
 1. Honington ||; Ixworth; Hopton; Barnham; Wangford; Mildenhall:—Ampton; Beyton; Bury, *C.B.*:—Barton, *Hb. Blk.*:—Pakenham, *Hb. Cas.*:—Stowlangtoft, *Hb. Rk.*:—Walsham, *Hb. Dun*:—Tuddenham, *E. Sk.*:—Fornham All Saints, *Hb. Ly.*
 2. Nayland:—Hitcham, *Hb. Hens.*:—Rede, *Hb. Turn.*
 3. Lound; St. Olaves; Beccles:—Bungay, *Stock*:—Fritton, *E.N.B.*:—Lowestoft; Belton; Benacre, *E. Sk.*:—Oulton, *McAub.*
 4. Eye; Walberswick; Thorpe:—Dunwich; Wenhas-ton, *W.J.*:—Gt. Glemham, *E.N.B.*:—Mendham and Syleham, *Galp.*
 5. Stutton; Orford:—Gt. Bealings, *Moor*:—Grundisburgh, *T.H.*:—Hemingstone, *T.B.*:—Brantham, *C.B.*:—Felixstowe, *Purchas*:—Wherstead, *Haward.*
 Earliest record 1773. Sir J. Cullum.

2. *S. Dulcamara*, *Linn.* *Bitter-sweet Nightshade.*
 Bab. Man. 253. Hook. St. Fl. 287. H. & S. 59. Hist. Yarm.
 Top. Bot. Suff. E. and W. Galp. 89.
 Climbing herbaceous perennial; in woods and hedges.
 Frequent in all the districts. June, July.
 Earliest record 1773. Sir J. Cullum.

Atropa, *Linn.*

1. *A. Belladonna*, *Linn.* *Deadly Nightshade. Dwale.*
 Bab. Man. 254. Hook. St. Fl. 287, 8. H. & S. 60. Hist. Fram.
 Hist. Bury. Top. Bot. Suff. W. Galp. 89.

Poisonous herbaceous perennial ; on waste ground.

June to August.

1. Hawstead, *Sir J. Cullum* :—Abbey ruins, Bury, *Sir T. G. Cullum* :—Mildenhall, *Sir C.J.F.B.* :—Lane between Risby and Flempton, *H. & S.* :—Westley Wood, *R. Burrell* :—Fornham, *Hb. Ly.*

4. About the Castle, Framlingham, *Parkinson & Crabbe*. Now extinct, *E.N.B.* :—Once found a plant at Oakley Park, *Collins*.

5. Woolverstone || :—Hemingstone, *T.B.*

Earliest record 1640. *Parkinson*.

Hyoscyamus, *Linn.*

1. *H. niger*, *Linn.*

Henbane.

Bab. Man. 254. Hook. St. Fl. 286. H. & S. 59. Hist. Yarm.

Top. Bot. Suff. E. and W. Hist. Wher. Galp. 89.

Poisonous biennial ; usually on waste ground.

May to July.

1. Honington ; Ixworth Thorpe ; Elveden :—Ashfield, *Hb. Dun.* :—Pakenham, *Hb. Cas.* :—Risby Heath, *Hb. Wils.* :—Rougham, *Hb. Rk.* :—Elmswell, *F.* :—Mildenhall, *Sir C.J.F.B.* :—Rattlesden, *Mrs. Parker* :—Woolpit, *J. Rasor* :—Barton and Icklingham, *H. & S.* :—Wangford Warren, *Rev. F. Tearle* :—Cavenham and Thetford, *Sk. ms.* :—Santon Downham, *Norgate* :—Fornham, *Hb. Ly.*

2. Nayland :—Kedington and Lit. Thurlow, *Hb. F.* :—Cockfield, *C.B.* :—Hitcham, *Hb. Hens.* :—Melford, *J.F.W.* :—Hadleigh, *F. Spalding*.

3. Lowestoft, *Hb. Sk.* :—Beccles, *W. M. Crowfoot* :—Gorleston, *Phyt. 1863* :—Bungay, *H. & S.* :—St. Margarets (E.A.H.), *Galp.*

4. Snape, *E.N.B.* :—Brockford, *Hb. Peck.*

5. Orford ; Felixstowe and Landguard Fort :—Aldeburgh, *Hele* :—Gt. Bealings, *Moor* :—Melton, *F. Spalding* :—Hemingstone, *T.B.* :—Coddensham, *F. Fox* :—Needham Market, *E. Clowes* :—Wherstead, *Haward*.

Earliest record 1773. *Sir J. Cullum*.

[*Nicandra physaloides*, Gært., was found in the summer of 1882, in a bean-field at Somerton ||, district 2, by *M. L. Boldero*.]

Lycium, Linn.

[*L. barbarum*, Linn. *Duke of Argyle's Tea-tree.*

Bab. Man. 254. Hook. St. Fl. App. 533.

A foreign shrub ; which has strayed largely from cultivation ; usually found in hedges. June to August.

1. Honington || ; Sapiston ; Troston ; Risby ; Brandon and Mildenhall.

2. Long Melford.

3. Bungay ; Burgh Castle ; Gorleston ; Kessingland and Henstead :—Bradwell, *H. G. Glasspoole in Hb. Geld.*

4. River-bank at Snape, at a distance from houses, *E.N.B.* :—Thorpe.

5. Shelley ; Aldeburgh ; Orford.]

Datura, Linn.

[*D. Stramonium*, Linn. *Common Thorn-apple.*

Bab. Man. 254. Hook. St. Fl. App. 533. H. & S. 59. Hist. Fram. Annual ; occasionally found as a stray in waste places.

June, July.

1. Ixworth || :—Pakenham, *Hb. Cas.* :—Santon Downham, *Hb. Sk.* :—Bradfield St. George, *Hbb. Turn. & Ly.*

2. Hitcham, *Hb. Hens.* :—Hadleigh, *F. Spalding.*

3. Mettingham ; Worlingham :—Fritton Heath, *Woodward.*

4. Framlingham, *Crabbe* :—Brockford, *Hb. Peck.*

5. Aldeburgh, *Hele* :—Melton, *F. Spalding.*

Earliest notice 1798. Rev. G. Crabbe.]

OROBANCHACEÆ.

Orobanche, Linn.

1. *O. Rapum*, Thuill. *O. major*, Linn.

Greater Broom-rape.

Bab. Man. 255. Hook. St. Fl. 308. H. & S. 60. Hist. Bury. Top. Bot. Suff. E. and W. Galp. 92.

Herbaceous leafless plant, parasitical on broom, gorse, &c. May to July.

1. Fakenham, on broom || ; Lackford :—Lit. Saxham, *Miss Bullender* :—Stowlangtoft, *Hb. Cas.* :—Herringswell, *Rev. F. Tearle.*

2. Wiston :—Cockfield, *C.B.* :—Hadleigh, *F. Spalding.*

3. Bungay, *H. & S.* 4. Weybread, *H.B.C.*
 5. Creeting, *Miss Jeffes* :—Hemingstone, *T.B.* :—Bur-
 stall, *F. Fox* :—Loudham Hall, Wickham Market, *F. Spal-*
ding :—near Bentley, *Purchas* :—Bawdsey, *C.B.*

Earliest record 1773. Sir J. Cullum.

3. *O. caryophyllacea*, *Sm.* *Glove-scented Broom-rape.*

Bab. Man. 255. Hook. St. Fl. 309. H. & S. 60. Top. Bot. Suff. W.?
 Herbaceous leafless plant; parasitical on *Galium Mollugo*.

June, July.

1. Near Hawstead, *McAub*, & *Miss Harvey*.

2. Semer, *H. & S.* :—‘near Sudbury, *W.L.N.*, (or, ac-
 cording to Mr. Watson, *E. G. Varenne*)’ *A.B.*

Earliest record 1860. Henslow and Skepper.

4. *O. elatior*, *Sutt.*

Tall Broom-rape.

Bab. Man. 256. Hook. St. Fl. 309. H. & S. 60. Hist. Bury.
 Top. Bot. Suff. W.

Herbaceous leafless plant; parasitical on *Centaurea*
Scabiosa. June, July.

1. Bardwell, *Hb. Blk.* :—Norton, *Hb. Cas.* :—Stow-
 langtoft, *Hb. Rk.* :—about Bury, Sir T. G. Cullum.

5. Sutton, *H. & S.* :—Felixstowe, *Hb. Ly.*

Earliest record 1804. Sir T. G. Cullum.

5. *O. Picridis*, *F. W. Schultz.*

Picris Broom-rape.

Bab. Man. 256. Hook. St. Fl. 309, 10.

Herbaceous leafless perennial; parasitical on *Picris*.

July.

1. Gt. Welnetham, *Hb. Sk.*

1862. E. Skepper.

7. *O. minor*, *Sutt.*

Lesser Broom-rape.

Bab. Man. 256. Hook. St. Fl. 309. H. & S. 60. Hist. Yarm.
 Top. Bot. Suff. E. and W. Hist. Wher. Galp. 92.

Herbaceous leafless annual; frequently parasitical on
Clover and Crepis virens.

1. Honington ||, on *Crepis virens* : Barton, *Hb. Blk.* :—
 Beyton, *Hb. Wils.* :—Walsham, *Hb. Dun.*

2. Cockfield, *C.B.* :—Hitcham, *Prof. Hens.* :—Nayland,
Gray :—Melford, *J.F.W.*

3. Bradwell :—Bungay, *Stock.* :—Gorleston, *Phyt.* 1862 :
 —Oulton, *McAub* :—Flixton, *Galp.*

4. Redgrave :—Gt. Glemham, very abundant, *E.N.B.*
 5. Felixstowe :—on *clover* at Raydon Cottage, Orford,
Crabbe. :—Ipswich, *Ips. Portf.* :—Gt. Bealings, *Moor* :—
 Grundisburgh, *T.H.* :—Ashbocking, *F.C.S.* :—Wherstead,
Haward.

Earliest notice 1805. Rev. G. Crabbe.

9. *O. cærulea*, *Vill.* *Blue Broom-rape.*
 Bab. Man. 257. Hook. St. Fl. 310.
 Herbaceous leafless parasite. June, July.
 1. In the Rectory Greenhouse, Cockfield, *C.B.*
 5. Pettistree, *Ms. Davy.*
 Earliest record 1828. Davy.

- [*O. ramosa*, *Linn.* *Branched Broom-rape.*
 Bab. Man. 257. Hook. St. Fl. App. 533.
 Herbaceous leafless annual; parasitical on *Hemp* &
Hemp Nettle. June to September.
 3. Near Beccles, *J. Sherard in Dill. Ray, & G.R.L. in*
Hb. Salm. :—Mettingham, on the roots of *Hemp* & *Galeopsis*
Tetrahit, both annual plants, *Woodward* :—near Bungay, *Stock.*
 4. Brome, *Woodward.*
 As *Hemp* is no longer grown in the county, its parasite
 has become extinct.
 1724. J. Sherard.]

SCROPHULARIACEÆ.

Verbascum, *Linn.*

1. *V. Thapsus*, *Linn.* *Hightaper.*
 Bab. Man. 259. Hook. St. Fl. 291, 2. H. & S. 60. Hist. Yarm.
 Top. Bot. Suff. E. and W. Hist. Wher.
 Tall biennial; by hedges and waste places. July, Aug.
 Frequent in all the districts.
 Earliest record 1773. Sir J. Cullum.
2. *V. Lychnitis*, *Linn.* *White Mullein.*
 Bab. Man. 260. Hook. St. Fl. 292. H. & S. 61. Hist. Fram.
 Biennial herb; in waste places and roadsides.
 June to August.
 1. Bury, *Sir J. Cullum* :—Barton Mills, *Rev. F. Tearle?* :—
 Livermere, *Hb. Sk.* :—between Ampton and Livermere, *H. & S.*
 3. Hedge-banks, Bungay, *F. Spalding.*

4. Framlingham, on the way to Parham, *Crabbe*.
Earliest record 1773. Sir J. Cullum.

3. *V. pulverulentum*, Vill. *Hoary Mullein.*

Bab. Man. 260. Hook. St. Fl. 292. H. & S. 61. Hist. Yarm.
Hist. Bury. Top. Bot. Suff. E. and W.

Biennial herb; on banks and waste places. July.

1. Timworth:—Bury ||, *Dill. Ray & Hbb. Sk. & Wils.*:—
Fornham, *Hb. Blk.*:—between Bury and Newmarket, *C.B.*:
—Rushbrooke, *Hb. Turn.*

3. Near Lake Lothing:—at the back of Browston Hall,
and on Herringfleet Common, *Wigg*:—Fritton Wood, *Paget*:
—near Mutford Bridge, *Dr. Trimen*:—Oulton, *McAub.*

4. Dunwich, *Davy & E.N.B.*

Earliest notice 1724. Dillenius.

4. *V. nigrum*, Linn. *Dark Mullein.*

Bab. Man. 260. Hook. St. Fl. 292. H. & S. 60. Hist. Bury.
Top. Bot. Suff. E. and W. Galp. 90.

Herbaceous perennial; on banks and waysides.

July, August.

1. Fakenham; Honington; Sapiston; Pakenham;
Livermere; Higham; Elveden; Barton Mills; Horringer:
—Stowlangtoft, *Hb. Dun.*:—Thurston, *Hb. Cas.*:—Bury
and Hawstead, *Sir J. Cullum*:—Mildenhall, *Sir C.J.F.B.*:
—near Sicklesmere, *W.J.*:—Barrow, *J.F.W.*:—Dalham,
Sk. ms.:—Bradfield Combust, *C.B.*

2. Hitcham, *Prof. Hens.*:—Kersey, *Gray*:—Sudbury,
Fulcher:—Hadleigh, *F. Spalding.*

3. Burgh Castle, *Hb. Rk.*:—Homersfield, *H.B.C.*:—
Halesworth, *W.J.*:—Bungay, *F. Spalding.*

4. Redgrave, *C.J. Ashfield*:—Westleton:—Wenhaston,
W.J.:—Walberswick, *J.H.G.*:—Mendham and Metfield,
Galp.:—Oakley and Palgrave, *Collins.*

5. Shrubland; Woolverstone and Shelley:—near
Marlesford, *E.N.B.*:—Martlesham, *Moor*:—Baylham, *Hb.*
F.:—Hemingstone, *T.B.*:—Coddtenham, *F. Fox*:—Ipswich,
H. & S.:—Lit. Blakenham, *Haward*:—between Bramford
and Claydon, *I.S.^s Soc.*

Earliest record 1773. Sir J. Cullum.

5. *V. Blattaria*, Linn. *Moth Mullein.*

Bab. Man. 260. Hook. St. Fl. 292.3. Hist. Yarm. Galp. 90.

Biennial herb ; on gravelly banks. August.

1. Barton and Mildenhall, *Hb. Blk.* :—Coney Weston :
—near Union House, Bury, *J. Priest in Hb. Geld.*

3. Southtown, *Paget & Wigg* :—Gorleston by Ferry, *J. Priest in Hb. Geld.*

4. Weybread, *Hb. Jeffes.*

Earliest record 1805. *Wigg.*

6. *V. virgatum*, *With.* *Twiggy Mullein.*

Bab. Man. 261. *Hook. St. Fl.* 293. *H. & S.* 60. *Hist. Yarm.*

Biennial herb ; on gravelly banks ; rare. August.

1. Ixworth, *H. & S.*

2. Semer, *H. & S.* :—Cockfield ||, *W.J.*

3. Southtown, *Paget.* 4. Dunwich, *Ms. Davy.*

Earliest record 1828. *Davy.*

V. Thapso-Lychnitis. A. hybrid. This is likely the
plant described as *V. Lychnitis*, *b.*—July 31st, 1773, *Sir J.*
Cullum. *Lond. Cat.* 1027 a.

V. Thapso-nigrum. A hybrid. *Lond.*
Cat. 1027 b.

1. Cavenham.

5. In the upper Chalk-pit, Claydon ||, 1884. *Hind.*

[*V. phœniceum*, *Linn.* A single plant, 1 Sep. 1880,
on a gravelly bank near the tail-race of Nayland Mill.
Hind.]

Digitalis, *Linn.*

1. *D. purpurea*, *Linn.* *Purple Foxglove.*

Bab. Man. 261. *Hook. St. Fl.* 298. *H. & S.* 62. *Top. Bot.*

Suff. E. and W. *Hist. Wher.*

Tall herbaceous perennial ; in woods and hedge-banks.

June to August.

1. Woolpit, *F.* Apparently absent from the greater
portion of the N.W. district.

2. Wiston || ; Stoke-by-Nayland :—Hitcham, *Hb. Hens.*

3. Lound ; Fritton and Belton :—Bungay, *H. & S.*

4. Cookley :—Westleton, *Holmes* :—Dunwich and Strat-
ford St. Andrew, *Ms. Davy.*

5. Woolverstone :—Bergholt, *Hb. Cas.* :—Wherstead,
Moor :—Bentley, *T.B.* :—Needham Market, *E. Clowes* :—

Shelley and Stratford St. Mary, *F. Spalding*:—Aldeburgh, *H. & S.*

Earliest notice 1832. Mrs. Casborne.

Antirrhinum, *Linn.*

*1. *A. majus*, *Linn.* *Greater Snapdragon.*

Bab. Man. 261. Hook. St. Fl. 295. *H. & S.* 61. Hist. Yarm. Showy herbaceous perennial; on old walls. July to Sep.

1. Honington ||; Troston; Thetford; Barton Mills:—Bury, *Hbb. Sk. & Wils.*:—Sapiston, *Gray*:—Fornham, *H. & S.*:—Hawstead, *Hb. Ly.*

2. Melford, *W.J.* 3. Bungay and Kessingland.

4. Hoxne, *Collins.*

5. Ipswich, *E.N.B.*:—Bergholt, *H. & S.*

Earliest record 1773. Sir J. Cullum.

2. *A. Orontium*, *Linn.* *Lesser Snapdragon.*

Bab. Man. 261. Hook. St. Fl. 295. *H. & S.* 61. Hist. Fram. Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 90. Annual; chiefly in light or sandy land. July, Aug.

1. Honington ||:—Barton, *Hb. Rk.*:—Pakenham, *Hb. Cas.*:—Rougham, *Hb. Blk.*:—Bury, *Sir J. Cullum*:—Nowton, *E. Sk.*

2. Cockfield, *W.J.*

3. Hopton:—Bungay, *Stock*:—Belton, *Paget*:—Southwold, *Hb. Dun.*:—Homersfield, *H.B.C.*:—Lowestoft, *E. Sk.*:—Oulton, *McAub*:—Belton, *J. Priest in Hb. Geld.*

4. Framlingham, *Crabbe*:—Thorpe, *Hele*:—Wenhas-ton Heath, *W.J.*:—Theberton, *T.W.G.*:—Brockford, *Hb. Peck.*

5. Stutton:—Grundisburgh, *T.H.*:—Hemingstone, *T.B.*:—Holbrooke, *E. Sk.*:—Wherstead, *Haward*:—Martlesham, *Hb. Ly.*

Earliest record 1773. Sir J. Cullum.

Linaria, *Mill.*

*1. *L. Cymbalaria*, *Mill.* *Ivy-leaved Toadflax.*

Bab. Man. 261. Hook. St. Fl. 293. *H. & S.* 61. Galp. 90. Creeping herbaceous perennial; on walls. May to Oct.

1. Honington ||; Ixworth; Troston Hall; Thetford; Elveden; Mildenhall:—Bury, *Hbb. Sk. & Wils.*:—Stowlangtoft, *Hb. Rk.*:—Woolpit, *F.*:—Barningham, *E.F.L.*:—

Bradfield Combust, *C.B.*:—on a Lime tree at Brandon, *Norgate*.

2. Nayland and Stoke:—Kersey, *E.F.L.*:—Lavenham, *W.J.*:—Long Melford, *J.F.W.*:—Hadleigh, *F. Spalding*.

3. Bungay and Mettingham:—Oulton, *McAub.*:—Flixton, *Galp.*

4. Dunwich:—Framlingham, *T.W.G.*

5. Woolverstone:—Higham, *Hb. Mg.*:—Ashbocking, *F.C.S.*:—Needham Market, *E. Clowes*.

Earliest notice 1831. *Hb. Wilson.*

2. *L. Elatine*, *Mill.*

Fluellin.

Bab. Man. 261,2. Hook. St. Fl. 293,4. H. & S. 61. Hist. Fram. Hist. Bury. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 90.

Small prostrate annual; in corn-fields. July to Sep.

1. Honington ||; Sapiston; Ixworth Thorpe; Wetherden:—Bradfield St. Clare, *C.B.*:—Barton, *Hb. Blk.*:—Hardwick, *Hb. Sk.*:—Pakenham, *Hb. Cas.*:—Walsham, *Hb. Dun.*:—Coney Weston, *E.F.L.*:—Welnetham, *Mrs. Carss*.

2. Thorpe and Cockfield, *C.B.*:—Hitcham, *Hb. Hens.*:—Kersey, *E.F.L.*:—Haverhill, *F.*

3. Hopton ||; Gorleston; Kessingland and Benacre:—Bungay, *Stock*:—Lowestoft and Blundeston, *E. Sk.*:—St. Margarets (*E.A.H.*), *Galp.*

4. Botesdale:—Gt. Glemham, *E.N.B.*:—Framlingham, *Crabbe*:—Badingham, *T.W.G.*:—Brockford, *Hb. Peck*:—Weybread, *Galp.*

5. Hemingstone, *T. B.*:—Coddtenham, *F. Fox*:—Wherstead, *Haward*.

Earliest notice 1773. Sir J. Cullum.

3. *L. spuria*, *Mill.*

Round-leaved Toadflax.

Bab. Man. 262. Hook. St. Fl. 293. H. & S. 61. Hist. Fram. Hist. Bury. Top. Bot. Suff. E. and W. Galp. 90.

Small prostrate annual; in corn-fields. July to Sep.

1. Honington:—Culford Heath; Ixworth; Livermere, *Gray*:—Hardwick, *Hb. Sk.*:—Walsham, *Hb. Dun.*:—Bury, *Sir T. G. Cullum*:—Rattlesden, *Mrs. Parker*:—Woolpit, *F.*:—Hawstead and Exning, *Sk. ms.*:—Lakenheath, *H. & S.*:—Lit. Welnetham, *Mrs. Carss*.

2. Cockfield, *C.B.*:—Hitcham, *Hb. Hens.*:—ThurLOW, *Hb. F.*:—Hadleigh, *Hb. Mg.*:—Kersey, *E.F.L.*:—Chedburgh, *Miss Bell*.

3. Hopton || :—Bungay, *Stock* :—St. Cross, *Holmes* :—Halesworth, *H. & S.*

4. Botesdale :—Leiston, *Hele* :—Gt. Glemham, *E.N.B.* :—Badingham, *T.W.G.* :—Framlingham, *Crabbe* :—Brockford, *Hb. Peck* :—Kettleburgh Glebe, *Ms. Davy*.

5. Grundisburgh, *T.H.* :—Coddendam, *F. Fox* :—Wherstead, *Haward* :—Darmsden, *Hb. Jeffes* :—Barham, *Hb. Ly.* :—Blaxhall, *Mrs. Toller*.

Earliest record 1773. Sir J. Cullum.

4. *L. minor*, *Desf.* *L. viscida*, *Möench.*

Lesser Toadflax.

Bab. Man. 262. Hook. St. Fl. 295. H. & S. 61. Hist. Yarm.
Top. Bot. Suff. E. and W. Galp. 90.

Small annual weed ; in sandy or light soil. June to Aug.

1. Honington || ; Ixworth Thorpe ; Sapiston ; Wetherden ; Barton Mills :—Hardwick, *Hb. Sk.* :—Walsham, *Hb. Dun.* :—Barton and Mildenhall, *Sir C.J.F.B.* :—Bardwell, *Rk.* :—Rattlesden, *Mrs. Parker* :—Newmarket and Lakenheath, *H. & S.* :—Barrow, Risby and Exning, *Sk. ms.*

2. Cockfield, *C.B.* :—Hitcham, *Hb. Hens.* :—Gt. Wratting, *Hb. F.* :—Kersey, *E.F.L.* :—Whepstead, *H. & S.*

3. St. Margarets, *H.B.C.* :—Flixton, *Galp.* :—Gorleston, *H. G. Glasspoole in Hb. Geld.*

4. Burgate, *C. J. Ashfield* :—Huntingfield, *Holland* :—Brockford, *Hb. Peck.*

5. Bentley :—Aldeburgh, *E. Forster, jun.* :—Iken, *Crabbe* :—Ashbocking, *F.C.S.*

Earliest record 1773. Sir J. Cullum.

8. *L. vulgaris*, *Mill.* *Common Toadflax.*

Bab. Man. 263. Hook. St. Fl. 294. H. & S. 61. Hist. Yarm.
Top. Bot. Suff. E. and W. Hist. Wher. Galp. 90.

Herbaceous perennial ; in fields and hedges. June, July.

Frequent in all the districts.

Earliest record 1773. Sir J. Cullum.

Scrophularia, *Linn.*

1. *S. nodosa*, *Linn.* *Knotted Figwort.*

Bab. Man. 263. Hook. St. Fl. 296. H. & S. 62. Hist. Fram.
Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 91.

Herbaceous perennial ; in woods and hedges.

Frequent in all the districts.

June, July.

Earliest record 1773. Sir J. Cullum.

2. *S. umbrosa*, *Dum.* *Shady Figwort.*

Bab. Man. 263. Hook. St. Fl. 296.

Herbaceous perennial; in wet places. August, Sep.

1. Hinderclay Wood ||.

Earliest notice 1882. Hind.

3. *S. aquatica*, *Linn.* *S. Balbisii*, Hornem.
Water Figwort.

Bab. Man. 263,4. Hook. St. Fl. 296. H. & S. 62. Hist. Fram.

Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 90.

Herbaceous perennial; beside ditches and streams.

Frequent in all the districts. July, August.

Earliest record 1773. Sir J. Cullum.

†5. *S. vernalis*, *Linn.* *Vernal Figwort.*

Bab. Man. 264. Hook. St. Fl. 297. Hist. Bury.

Herbaceous perennial; usually in waste places; rare.

April, May.

1. Fornham St. Genevieve, *Sir T. G. Cullum*:—‘near Bury,’ *Woodward and Hb. Ly.*:—Stowlangtoft, in Rectory kitchen garden, *Hb. Rk.*:—Rougham, *Sk. ms.*:—Hardwick, *Norgate*.

Earliest record 1774. Sir J. Cullum.

Limosella, *Linn.*

1. *L. aquatica*, *Linn.* *Mudwort.*

Bab. Man. 264. Hook. St. Fl. 297. H. & S. 62. Hist. Yarm.

Top. Bot. Suff. E. and W.

Small annual; in mud at the edge of ponds.

July to September.

1. Mildenhall, near Barton Mills, on low wet ground, *Sir C.J.F.B.*

3. Lowestoft, by the Fish-houses, *Borrer*.

Earliest record 1808. Borrer.

Melampyrum, *Linn.*

1. *M. cristatum*, *Linn.* *Crested Cow-wheat.*

Bab. Man. 264. Hook. St. Fl. 307. H. & S. 64. Hist. Bury.

Top. Bot. Suff. W.

Annual herb; in woods and thickets. Almost confined to West Suffolk: absent from the Breck country. July.

1. Westley Wood:—Bury, *Hb. Sk.*:—Hessett and

Nowton, *Hb. Wils.* :—Kedington and Rattlesden, *Hb. F.* :—
Stanton, *Hbb. Blk., Cas. and Rk.* :—Hawstead, *Sir J. Cullum* ;
—Ixworth, *Woodward* :—Clopton Park, *Mrs. Parker* :—One-
house ; Norton and Thurston, *Mrs. Terry* :—Elmswell ||, *J.*
Rasor :—Hardwick and Westley, *H. & S.* :—Dalham, *E. Sk.*

2. Hitcham, *Hb. Hens.* :—Chedburgh, *Miss Bell* :—
Stanstead, *Rev. E. J. Phipps* :—Whepstead, *H. & S.*

4. Burgate Wood, *C. J. Ashfield.*

5. Bramford, *lps. Portf.*

Earliest record 1773. Sir J. Cullum.

[2. *M. arvense*, *Linn.* *Purple Cow-wheat.*

Bab. Man. 264,5. Hook. St. Fl. 307. H. & S. 64. Top. Bot.
Suff. W.

Annual herb ; in corn-fields and on dry banks ; rare.

July.

2. Hitcham, *Prof. Hens.* Likely a casual.

Earliest record 1860. Prof. Henslow.]

3. *M. pratense*, *Linn.* *Common Cow-wheat.*

Bab. Man. 265. Hook. St. Fl. 306. H. & S. 64. Hist. Fram.
Hist. Wher. Galp. 92. Top. Bot. Suff. E. and W.

Annual herb ; in woods and thickets. This must be the
species intended by *M. silvaticum* in Hist. Fram. June, July.

1. Hinderclay and Wetherden :—Fakenham Wood,
Hb. Rk. :—Hardwick, *Hb. Sk.* :—Monk's Wood, Hessett, *Hb.*
Wils. :—Pakenham, *Hb. Cas.* :—Stanton, *Hb. Dun.* :—Den-
ham, *C.B.* :—Dalham, *Rev. F. Tearle.*

2. Wiston :—Hitcham, *Prof. Hens.* :—Woods near Nay-
land, *Gray.*

3. Oulton, *McAub.* :—Barsham, *R. E. Leach.*

4. Westleton Decoy || :—Gt. Glemham, *E.N.B.*

5. Hemingstone, *T.B.* :—Wherstead, *Haward* :—Wood-
bridge, *Hb. Ly.*

b. M. latifolium, (*Syme.*)

Hook. St. Fl. 306. L.C. 1076. b.

1. Stanton.

Earliest record 1773. Sir J. Cullum.

4. *M. silvaticum*, *Linn.* *Wood Cow-wheat.*

Bab. Man. 265. Hook. St. Fl. 307. Hist. Fram. ?

Annual ; in woods ; rare.

July.

1. Monk's Wood, Hessett ! *Hb. Wils.* 1833.

Pedicularis, Linn.

1. *P. palustris*, Linn. *Marsh Louse-wort*

Bab. Man. 265. Hook. St. Fl. 306. H. & S. 63. Hist. Yarm.
Top. Bot. Suff. E. & W. Galp. 127.

Annual herb; in marshes and fens. May to July.

1. Market Weston ||; Coney Weston; Hopton; Thel-netham; Hinderclay; Brandon and Lakenheath:—Paken-ham, *Hbb. Cas. & Rk.*:—Tuddenham, *Hb. Sk.*:—Mildenhall, *Sir C.J.F.B.*:—Lackford, *Hb. Ly.*

2. In a marsh near the river, Long Melford:—Ked-ington, *Hb. F.*

3. Beccles; Bungay; Fritton; Lound; Kessingland and Benacre:—Mutford, *Hb. Blk.*:—Belton, *E.N.B.*:—Lowestoft, *E. Sk.*:—Oulton, *McAub.*:—Worlingham, *R. E. Leach.*

4. Redgrave Fen, *Hb. Dun.* 5. Freston, *Haward.*
Earliest record 1773. Sir J. Cullum.

2. *P. silvatica*, Linn. *Red Rattle.*

Bab. Man. 265, 6. Hook. St. Fl. 306. H. & S. 64. Hist. Fram.
Hist. Yarm. Top. Bot. Suff. E. and W.

Herbaceous perennial; in moist pastures. May to Aug.
In all the districts, less frequent than formerly.

‘On the 27th October, 1801, Mr. Dillwyn found on Belton Common an extraordinary variety of this plant with an hypocrateri form Corolla,—the limb divided into 5 equal cordate segments; the stamina were rather prominent; of six flowers only one was thus irregular, the remaining five preserved their natural appearance.’ *D. Turner in B.G.*

Earliest record 1773. Sir J. Cullum.

Rhinanthus, Linn.

1. *R. Crista-galli*, Linn. *Common Yellow Rattle.*

Bab. Man. 266. Hook. St. Fl. 305. H. & S. 63. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. and W. Galp. 92.

Annual herb; frequent in moist meadows and pastures.
Common in all the districts. June.

Earliest record 1773. Sir J. Cullum.

Euphrasia, Linn.

1. *E. officinalis*, Linn. *Eyebright.*

Bab. Man. 267. Hook. St. Fl. 304. H. & S. 63. Hist. Yarm.
 Top. Bot. Suff. E. and W. Galp. 92.
 Small annual herb ; in pastures, heaths and woods.
 Common in all the districts. June to August.

b. E. nemorosa, Pers.

Bab. Man. 267.

4. Redgrave Fen ||.

Earliest record 1773. Sir J. Cullum.

Odontites, *Duby*.

1. *O. rubra*, Pers. *Bartsia Odontites*, Huds.
Red Odontites.

Bab. Man. 267. Hook. St. Fl. 304. H. & S. 63. Hist. Yarm.
 Top. Bot. Suff. E. and W.
 Annual weed ; on cultivated land, heaths and waysides.
 Common in all the districts. July, August.

a. O. verna, Reichb.

Bab. Man. 267. Hook. St. Fl. 304.

1. Shelland and Barton ; Honington || :—Fornham,
Hb. Ly.

2. Hitcham, *Hb. Hens*. 3. Fritton and Henstead.

b. O. serotina. Reichb.

Bab. Man. 267. Hook. St. Fl. 304.

1. Between Market Weston and Hepworth, *Gray* :—
 Pakenham, *Hb. Cas.* :—Stowlangtoft, *Hb. Rk.* :—Tudden-
 ham, *Hb. Wils.* :—Felsham, *Hb. Sk.* :—Mildenhall ||.

2. Hitcham, *Hb. Hens*. 3. Benacre.

4. Yaxley.

Earliest record 1773. Sir J. Cullum.

Veronica, *Linn*.

1. *V. scutellata*, Linn. *Marsh Speedwell*.

Bab. Man. 268. Hook. St. Fl. 302. H. & S. 62. Hist. Yarm.
 Hist. Wher. Top. Bot. Suff. E. and W. Galp. 91.

Herbaceous perennial ; in fens and boggy ground.

Distributed through all the districts. June to Aug.

V. pubescens. *V. parvularia*, Poit et Turp.

Hook. St. Fl. 302.

1. Woolpit ||, *Hb. F.*:—Tostock, *J. Raser*:—Broadmere; Troston.

Earliest record 1773. Sir J. Cullum.

2. *V. Anagallis*, *Linn.* *Water Speedwell.*

Bab. Man. 268. Hook. St. Fl. 302. H. & S. 62. Hist. Fram.
Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. & W. Galp. 91.

Herbaceous perennial; in muddy ditches and streams.

Frequent in all the districts.

June to August.

Earliest record 1773. Sir J. Cullum.

3. *V. Beccabunga*, *Linn.* *Brooklime.*

Bab. Man. 268. Hook. St. Fl. 302. H. & S. 62. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. and W. Galp. 92.

Herbaceous perennial; in shallow streams and ditches.

Frequent in all the districts.

May to August.

Earliest record 1773. Sir J. Cullum.

4. *V. Chamædrys*, *Linn.* *Germander Speedwell.*

Bab. Man. 268. Hook. St. Fl. 301. H. & S. 63. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. and W. Galp. 91.

Prostrate herbaceous perennial; on banks and in woods.

Common in all the districts.

May, June.

Earliest record 1774. Sir J. Cullum.

5. *V. montana*, *Linn.* *Mountain Speedwell.*

Bab. Man. 268. Hook. St. Fl. 301, 2. H. & S. 62. Hist. Bury.
Hist. Wher. Top. Bot. Suff. E. and W. Galp. 91.

Herbaceous perennial; prostrate in woods and shady places.

May, June.

1. Rushbrooke, *Hb. Sk.*:—Barton, *Sir C.J.F.B.*

2. Wiston ||; Stoke-by-Nayland:—Lit. Thurlow, *Hb. F.*:—Hart Wood, Gt. Bradley, *F.*:—Nayland, *Gray*:—Cockfield, *W.J.*

3. Belton:—St. Cross & Flixton, *Holmes*:—Chediston, *H. & S.*:—Fritton and Gorleston, *Phyt. 1862, 3*:—Bungay, *H. & S.*

4. Gt. Glemham, *E.N.B.*

5. Woolverstone:—Wherstead, *Haward*:—Ringshall, *Hb. Jeffes.*

Earliest record 1775. Sir J. Cullum.

6. *V. officinalis*, *Linn.* *Common Speedwell.*

Bab. Man. 268, 9. Hook. St. Fl. 301. H. & S. 62. Hist. Yarm.
Hist. Bury. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 91.

Herbaceous perennial; on heaths and hills.

Common in all the districts.

June to August.

Earliest record 1773. Sir J. Cullum.

7. *V. spicata*, Linn.

Spiked Speedwell.

Bab. Man. 269. Hook. St. Fl. 302, 3. H. & S. 62. Hist. Bury.

Top. Bot. Suff. W.

Herbaceous perennial; on chalky heaths. July, Aug.

1. Bury, Mr. Crowe:—'Icklingham, on a dyke in a heath West side of Icklingham Church, Sir Jno. Cullum, 1777.' Dill. Ray in Hort. Ox.:—'On Cavenham, Culford and Risby Heaths,' Sir T. G. Cullum:—'Between Risby Heath Fir Plantation and Cavenham Severals,' Blk. in Hbb. Rk. & Borrer:—Tuddenham, Hb. Sk. & Dr. Clay in Hb. Rk.:—Newmarket Heath, Miss Bullender & Cas. in Hb. Rk.:—Herringswell green lane, Rev. F. Tearle:—Culford Heath, near Wordwell, August, 1879 ||, Gray:—Thetford Heath, F.:—Brandon, Britten:—Between Barnham and Euston, Hb. Salm.:—'Monday, Sept. 3, 1781. In company with Dr. Goodenough, Mr. Laurents and my brother, on the bank opposite to Icklingham, is the *Veronica Hybrida* as well as *spicata*. The chief difference is that the leaves of the former are paler and less rigid,' Sir. J. Cullum. Scarcely *V. hybrida*, Ed.

Earliest record 1773. Sir J. Cullum.

10. *V. serpyllifolia*, Linn.

Thyme-leaved Speedwell.

Bab. Man. 269. Hook. St. Fl. 300.

H. & S. 62.

Hist. Yarm.

Hist. Wher. Top. Bot. Suff. E. and W.

Galp. 91.

Herbaceous perennial; prostrate in pastures and heaths.

Common in all the districts.

May to July.

Earliest record 1773. Sir J. Cullum.

11. *V. arvensis*, Linn.

Field Speedwell.

Bab. Man. 270. Hook. St. Fl. 300.

H. & S. 63.

Hist. Yarm.

Hist. Wher. Top. Bot. Suff. E. and W.

Galp. 91.

Annual weed; on sandy and gravelly soil. April to July.

Common in all the districts.

Earliest record 1773. Sir J. Cullum.

12. *V. verna*, Linn.

Vernal Speedwell.

Bab. Man. 270. Hook. St. Fl. 300.

H. & S. 63.

Hist. Bury.

Top. Bot. Suff. E. and W.

Small annual plant; on sandy or chalky heaths. May.

1. 'On a sandy grassy bank, near a large gravel-pit on the right-hand, about half-way between West Stow and Icklingham,' *Sir J. Cullum* :—Thetford Heath || ; West Stow ; Barnham :—Mildenhall, *Hbb. Cas. & Blk.* :—Cavenham and Lakenheath, *Hb. Sk.* :—in the Rye at Wordwell, *Sir T. G. Cullum* :—'Near Bury, about Culford, and at Lackford, *Sir Jno. Cullum*,' *Dill. Ray in Hort. Ox.* :—Icklingham Heath, *A.B.* :—Brandon, *H. & S.* :—Elveden, *E.F.L.* :—Eriswell, *C.B.*

4. Thorpe, *Hele* :—Cookley, *Rev. W. R. Tate*.
Earliest record 1771. *Sir J. Cullum*.

13. *V. triphyllus*, *Linn.* *Fingered Speedwell.*

Bab. Man. 270. Hook. St. Fl. 299. H. & S. 63. Hist. Bury.
Top. Bot. Suff. E. and W. Galp. 127.

Small annual plant ; in sandy fields. April.

1. 'Icklingham, sandy fields, *Sir Jno. Cullum*,' *Dill. Ray in Hort. Ox.* :—'May 5, 1875. It has been some time in blossom on a sandy fallow about quarter-of-a-mile from the E. end (a little inclining to the South) of the first Church in Icklingham, about 7 m. N.W. of Bury,' *Sir J. Cullum* :—Barton Mills, *T. Willisell in Dill. Ray, and Thos. Martyn* :—Mildenhall, *Hbb. Blk. & Cas.* :—Eriswell, *Sir C.J.F.B.* :—Brandon ||, *W. J. Cross* :—Thetford and Lakenheath, *H. & S.* :—West Stow, *Hb. Blk.* :—'Near Culford and Lackford, *Sir Jno. Cullum*,' *Dill. Ray in Hort. Ox.* :—Cavenham, *E. S. Marshall* :—Tuddenham, *Hb. Wils.* :—Livermere, *Rev. J. Dalton* :—Elveden and Euston, *E.F.L.* :—Barnham, *C.B.*

2. Lit. Thurlow, *Hb. F.*

3. Bungay, *Sir J. E. Smith.* 4. Snape, *Hele.*

5. Shottisham, *Holmes* :—Aldeburgh, *Crabbe* :—Barnham Heath, *Rev. W. Kirby.*

Earliest record 1724. *Willisell.*

14. *V. agrestis*, *Linn.* *Procumbent Speedwell.*

Bab. Man. 270, 1. Hook. St. Fl. 299. H. & S. 63. Hist. Yarm.
Top. Bot. Suff. E. and W. Galp. 91.

Small procumbent annual ; on cultivated ground.

Common in all the districts. April to September.

Earliest record 1773. *Sir J. Cullum.*

15. *V. polita*, *Fries.* *Grey Field Speedwell.*

Bab. Man. 271. Hook. St. Fl. 299. H. & S. 63. Hist. Yarm.
Top. Bot. Suff. E. and W. Galp. 91.

Small procumbent annual ; on cultivated ground.

April to September.

1. Honington || ; Bury, *Hb. Sk.* :—Stowlangtoft, *Rk.* :—Rougham, *H. & S.* :—Bradfield, *E. Sk.*

2. Clare ; Stoke-by-Nayland :—Kersey, *E.F.L.*

3. Kessingland ; Beccles :—Bungay, *Stock* :—St. Margarets, *Galp.*

4. Gt. Glemham, *E.N.B.* :—Burgate :—Hoxne ; Eye ; Mellis, *E. S. Marshall.*

5. Stutton and Shelley :—Grundisburgh, *T.H.*

V. grandiflora, Bab.

1. Barton Mills ||. 2. Hitcham, *Hb. Hens. 1850.*

Earliest notice 1835. D. Stock.

*16. *V. Buxbaumii*, Ten.

V. persica, Poir.

Buxbaum's Speedwell.

Bab. Man. 271. Hook. St. Fl. 299. H. & S. 63. Top. Bot. Suff. E. and W. Hist. Wher. Galp. 91.

Procumbent annual ; chiefly on cultivated land.

April to September.

1. Honington || ; Fakenham ; Risby ; Wetherden :—Bury, *Hb. Sk.* :—Stowlangtoft, *Hb. Rk.* :—Woolpit, *Hb. F.* :—Barningham, *E.F.L.* :—Fornham, *Sk. ms.* :—Santon Downham, *Norgate* :—Bradfield, *Rev. P. Lathbury* :—Kennet, *C.B.*

2. Nayland :—Hitcham, *Hb. Hens.* :—Cockfield, *W.J.* :—Kersey, *E.F.L.* :—Waldringfield, *C.B.*

3. Fritton and Kessingland ; Beccles :—Blundeston, *Sk. ms.*

4. Burgate ; Cookley ; Westleton :—Gt. Glemham and Sweffling, *E.N.B.* :—Badingham, *T.W.G.*

5. Stutton and Claydon :—Orford, *E.N.B.* :—Grundisburgh, *T.H.* :—Coddtenham, *F. Fox* :—Wherstead, *Haward* : near Dodnash Wood, *I.S. Soc.*

Earliest record 1852. F. K. Eagle.

17. *V. hederifolia*, Linn.

Ivy-leaved Speedwell.

Bab. Man. 271. Hook. St. Fl. 299. H. & S. 63. Hist. Yarm. Hist. Bury. Top. Bot. Suff. E. and W. Hist. Wher. Galp. 91.

Annual ; generally procumbent.

April to June.

Frequent in all the districts.

A form with broadly ovate leaves and erect habit occurred at Honington || in 1880.

Earliest record 1773. Sir J. Cullum.

LABIATÆ.

Mentha, Linn.

- †1. *M. viridis*, Linn. *Spear-mint*.
 Bab. Man. 274. Hook. St. Fl. 315, 16. Hist. Bury. Galp. 93.
 Erect herbaceous perennial; in marshy places. August.
 1. Bury, *Sir T. G. Cullum*.
 4. Banks of the Waveney below Syleham Mills, *Holmes*.
 Earliest record 1773. *Sir J. Cullum*.
2. *M. rotundifolia*, Linn. *Broad-leaved Mint*.
 Bab. Man. 274. Hook. St. Fl. 315. H. & S. 64. Top. Bot.
 Suff. E. Galp. 93.
 Herbaceous perennial; in waste places; rare.
 August, September.
 3. Chediston, *Trimmer*:—Oulton, *McAub*.
 4. Withersdale, *H.B.C.*:—Palgrave, *Collins*:—Mend-
 ham; Metfield, *Galp*.
 Earliest record 1860. Rev. Kirby *Trimmer*.
3. *M. alopecuroides*, *Hull*. *M. velutina*, Bab.
Velvet Mint.
 Bab. Man. 275. Hook. St. Fl. 315.
 Herbaceous perennial; damp spots. Aug., Sept.
 2. Between Bures and Sudbury ||. Two specimens
 among Dr. Babington's duplicates, without signature. Label
 is W. Jordan's writing: Aug. 1883.
4. *M. silvestris*, Linn. *Horse-mint*.
 Bab. Man. 275. Hook. St. Fl. 315. H. & S. 64. Hist. Fram.
 Hist. Yarm. Hist. Bury. Top. Bot. Suff. E. and W. Galp. 93.
 Herbaceous perennial; borders of fields in damp spots.
 August, September.
 1. Onehouse:—Bury, *Sir T. G. Cullum*:—Tuddenham ||,
Hb. Sk.:—Stowmarket, *Sk. ms.*:—'In a bushy close near
 Exning,' Ms. notes in J. Martyn's *Methodus Plantarum*.
 2. Hitcham, *Hb. Hens.*:—Nayland, *Gray*:—Bures,
W.J.
 3. Burgh Castle and by Browston Hall, *Wigg*:—Fritton
 Broad, *Paget*:—Bungay, *Stock & Ms. Davy*:—Westhall, *H. & S.*
 4. Eye, *Hb. Cas.*:—Framlingham, *Crabbe*:—Metfield,
Holmes.

5. Bentley || :—Gt. Bealings, *Moor* :—Hemingstone,
T.B. :—Brantham, *H. & S.* :—Creeting, *Sk. ms.*

M. mollissima, Bock.

Hook. St. Fl. 315. Lond. Cat. 1104.c.

2. Near Bures, *C.B.* 5. Campsey Ash, *Trimmer.*

Earliest notice 1685. Jackson.

*5. *M. piperita*, *Sm.* *Peppermint.*

Bab. Man. 275. Hook. St. Fl. 316. *H. & S.* 65. Hist. Bury.

Hist. Wher. Top. Bot. Suff. E. and W.

Herbaceous perennial ; wet places ; rare. July, Aug.

1. Honington, *Hb. Sk.* :—Chalk Quarry behind the
 Hospital, Bury, *Sir T. G. Cullum* :—Harleston ||.

2. Ousden, *Rev. F. Tearle.*

5. The Gipping, Ipswich, *Dr. Taylor* :—Hemingstone,
T.B. :—Wherstead, *Haward.*

Earliest record 1804. Sir T. G. Cullum.

6. *M. aquatica*, *Linn.* *M. hirsuta*, *Linn.*, *Fries.*
Capitate Mint.

Bab. Man. 275. Hook. St. Fl. 316. *H. & S.* 65. Hist. Fram.

Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 93.

Herbaceous perennial ; by streams and river-banks.

Common in all the districts.

July, August.

M. subglabra, Baker.

Hook. St. Fl. 316. Lond. Cat. 1108.b.

1. Bank of the Lark, Mildenhall :—Hardwick and
 Bury, *Hb. Wils.*

3. Beccles.

4. Redgrave Fen || ; Mellis.

M. citrata, Ehrh.

Hook. St. Fl. 316. Lond. Cat. 1108.c.

1. Troston.

Earliest notice 1798. Rev. G. Crabbe.

7. *M. pubescens*, *Willd.* *Downy Mint.*

Bab. Man. 275 ? Hook. St. Fl. 316.

Herbaceous perennial ; in wet places. July, August.

4. Redgrave Fen || ; Mellis ||.

M. hircina, Hull.

Hook. St. Fl. 316. Lond. Cat. 1107.b.

1. Lakenheath ||. 1886. Hind.

8. *M. sativa*, Linn. *M. rivalis*, Lond. Cat.
Whorled Mint.

- Bab. Man. 275,6. Hook. St. Fl. 317. H. & S. 65. Hist. Wher.
Top. Bot. Suff. W. Galp. 93.
Herbaceous perennial; in wet places. July, August.
1. Honington ||; Fakenham ||; Ixworth Thorpe :—
Pakenham Fen, *Hbb. Cas. & Sk.* :—Stowlangtoft, *Hb. Rk.*
2. Nayland; Stoke and Long Melford.
3. Mettingham; near Beccles, *D. Turner.*
4. Weybread Marshes, *Galp.*
5. Stutton :—Grundisburgh, *T.H.* :—Wherstead, *Ha-ward.*

M. paludosa, Sole.

- Hook. St. Fl. 317. Lond. Cat. 1109.b.
1. Fakenham and Honington || :—Hardwick, *Hb. Wils.*

M. subglabra, Baker.

- Hook. St. Fl. 317. Lond. Cat. 1109.c.
1. Hardwick, *Hb. Wils.* :—Mildenhall ||.
Earliest record 1773. Sir J. Cullum.

M. rubra, Sm. *Red Mint.*

- Bab. Man. 275,6. Hook. St. Fl. 317. Lond. Cat. 1110.
Herbaceous perennial; on moist banks, &c. July, Aug.
1. Barton, *Sir C.J.F.B.* 4. Wetheringsett ||, *Hb. Peck.*
Earliest notice 1834. Paget.

M. gentilis, Linn.

- Bab. Man. 276. Hook. St. Fl. 317. Lond. Cat. 1113.
Herbaceous perennial; in moist land. July, Aug.
1. Honington ||.
First notice 1875. Hind.

9. *M. arvensis*, Linn. *Corn-mint.*

- Bab. Man. 276. Hook. St. Fl. 317. H. & S. 65. Hist. Fram.
Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W.
Herbaceous perennial; on cultivated land.
Frequent in all the districts. July to September.

M. Nummularia, Schreb.

- Hook. St. Fl. 317. Lond. Cat. 1114.b.
1. Troston ||. 4. Redgrave ||.

M. agrestis, Sole.

[Bab. Man. 276. Hook. St. Fl. 317. Lond. Cat. 1114.c.
4. Botesdale ||. 5. Shrubland Park.

M. præcox, Sole.

Hook. St. Fl. 317. Lond. Cat. 1114.d.
1. Fakenham ||. 2. Long Melford.

M. Allionii, Bor.

Hook. St. Fl. 317, 18. Lond. Cat. 1114.e.
1. Troston ||.
Earliest record 1773. Sir J. Cullum.

10. *M. Pulegium*, Linn. Penny Royal.

Bab. Man. 276. Hook. St. Fl. 318. H. & S. 65. Hist. Fram.
Hist. Bury. Hist. Yarm. Top. Bot. Suff. E. and W.
Herbaceous perennial; in water or wet places.
August, September.

1. Fakenham Wood :—Bury, *Sir T. G. Cullum*.
2. Cockfield, *C.B.* 3. Belton, *Wigg* :—Bungay, *Stock*.
4. Parham Green; Benhall, on a green near the
Lodge, *Crabbe* :—Yoxford and Middleton, *Ms. Dary*.
5. Grundisburgh, *T.H.*
Earliest record 1773. Sir J. Cullum.

Lycopus, Linn.1. *L. europæus*, Linn. Gipsy Wort.

Bab. Man. 276. Hook. St. Fl. 318. H. & S. 64. Hist. Fram.
Hist. Yarm. Top. Bot. Suff. E. and W.
Herbaceous perennial; in streams and ditches.
Frequent in all the districts. July, August.
Earliest record 1773. Sir J. Cullum.

Salvia, Linn.1. *S. Verbenaca*, Linn. English Sage, or Clary.

Bab. Man. 276, 7. Hook. St. Fl. 321, 2. H. & S. 64. Hist.
Yarm. Top. Bot. Suff. E. and W. Galp. 94.
Herbaceous perennial; dry gravelly pastures and banks.
May, June.

1. Honington ||; Ixworth Thorpe; Thurston; Risby;
Haughley :—Tuddenham; Icklingham & Eriswell; Flemp-
ton, *C.B.* :—Badwell Ash, *Hb. Dun.* :—Barton, *Hb. Blk.* :—

Bury, *Hb. Sk.*:—Pakenham, *Hbb. Cas. & Rk.*:—Stowlangtoft, *Hb. Rk.*:—Mildenhall, *Sir C.J.F.B.*:—Moulton, *Miss Bullender*:—Coney Weston, *E.F.L.*:—Cavenham, *W.J.*:—Woolpit, *F.*:—Fornham, *Hb. Ly.*:—Lit. Saxham, *Rev. H. I. Kilner*.

2. Hitcham, *Hb. Hens.*:—Clare, *C.B.*:—Wixoe, *Hb.F.*:—Stoke, *Gray*:—Melford, *J.F.W.*

3. Fritton; Gorleston; Beccles and Mettingham:—Bungay, *H. & S.*:—Flixton; St. Margarets, *Galp.*

4. Dunwich and Walberswick:—Redgrave, *C.B.*:—Rendham; Marlesford, *E.N.B.*:—Framlingham, *T.W.G.*

5. Orford; Landguard Fort:—Bawdsey Ferry, *W.L.N.*:—Grundisburgh, *T.H.*:—Hemingstone, *T.B.*:—Burstall, *F. Fox*:—Needham Market, *E. Clowes*:—Bramford, *Miller*:—Sproughton, *I. S. Soc.*

Earliest record 1773. Sir J. Cullum.

[3. *S. pratensis*, Linn. *Meadow Clary.*

Bab. Man. 277. Hook. St. Fl. 322. H. & S. 64. Top. Bot. Suff. W. (casual.)

Herbaceous perennial; in dry fields. We regard this as a doubtful plant in Suffolk. If native at Pakenham, it ought certainly to have had a place in *Hb. Cas.*; and likely in *Hb. Rk.* Specimens of *S. Verbenaca*, with larger flowers than usual have been mistaken for it.

1. Pakenham, *H. & S.* 4. Hadleigh, *F. Spalding.*

5. Woodbridge, *F. Spalding.*]

[*S. verticillata*, Linn. An alien; was found on a bank at Higham Railway Station in the Autumn of 1884; at Long Melford Station 1888.]

Origanum, Linn.

1. *O. vulgare*, Linn. *Marjoram.*

Bab. Man. 277. Hook. St. Fl. 318. H. & S. 65. Top. Bot. Suff. W.

Fragrant herbaceous perennial; on dry banks. Aug.

1. Beyton, *Hb. Wils.*:—Bury, *Sir J. Cullum.*

2. Wickhambrook ||:—Kedington ||, *Hb. F.*:—Rede, *Hb. Turn.*:—Hitcham, *Prof. Hens.*:—Melford and Great Cornard? *J.F.W.*

4. Burgate, *Collins.*

5. Hemingstone, *T.B.* :—Barking, *Hb. Jeffes*.
Earliest record 1781. Sir J. Cullum.

Thymus, *Linn.*

1. *T. Serpyllum*, *Linn.* *Common Thyme.*
Bab. Man. 277. Hook. St. Fl. 319. H. & S. 65. Galp. 94.
Top. Bot. Suff. E. and W.
Prostrate herbaceous perennial; on dry banks and
heaths. June to August.
1. Mildenhall; Eriswell ||; Elveden; Risby; Thet-
ford :—Lackford, *Hb. Ly.*
3. Flixton, *Galp.* 5. Bramford, *Miller?*
Earliest notice 1773. Sir J. Cullum.

2. *T. Chamædrys*, *Fries.* *Mountain Thyme.*
Bab. Man. 278. Hook. St. Fl. 319.
Small herbaceous perennial; on chalky or gravelly
banks. June to August.
In all the districts.
Earliest record under *T. Serpyllum* 1773. Included
in *T. Serpyllum*.

Calamintha, *Mœnch.*

1. *C. Nepeta*, *Clairv.* *Lesser Calamint.*
Bab. Man. 278. Hook. St. Fl. 320. H. & S. 65. Hist. Bury.
Top. Bot. Suff. E. and W.
Herbaceous perennial; on dry banks; rare. July, Aug.
1. Bury, *Sir J. Cullum* :—‘Hedge on the right just
below the Kennet Bell, Suffolk,’ *Sir T. G. Cullum* :—‘Be-
tween Worlingham and Herringswell,’ *Sir C.J.F.B.* :—Dal-
ham, *E. Sk.*
No locality known for E. Suff. (Oby. *G. Cooper* in
Hist. Yarm. is in Norfolk.)
Earliest record 1773. Sir J. Cullum.

2. *C. officinalis*, *Mœnch?* *C. menthifolia*, Host.
Common Calamint.
Bab. Man. 278. Hook. St. Fl. 320. H. & S. 65. Hist. Yarm.
Galp. 94. Top. Bot. Suff. E. and W.
Herbaceous perennial; on dry banks. More widely
distributed in Suffolk than in most counties. July to Sep.
1. Fakenham ||; Honington; Bardwell; Kentford;

Mildenhall :—Kennet, *C.B.* :—Bury, *Hb. Sk.* :—Barton, *Hb. Blk.* :—Hawstead, *Hb. Wils.* :—Barningham and Hopton, *E.F.L.* :—Drinkstone, *J. Rasor.*

2. Bures to Stoke, *C.B.* :—Hitcham, *Prof. Hens.* :—Wixoe, *Hb. F.* :—Cockfield, *W.J.* :—Kersey, *E.F.L.* :—Semer, *H. & S.* :—Melford, *C.B.*

3. Mettingham ; Fritton ; Corton ; Benacre :—Gorleston, *Paget.* :—Bungay, *Stock.* :—Oulton, *McAub.* :—Homersfield, *Galp.* :—Beccles and Worlingham, *R. E. Leach.*

4. Westleton :—Lt. Glemham, Brandeston and Framsdan, *E.N.B.* :—Framlingham, *Crabbe.* :—Peasenhall, *T.W.G.* :—Mendham and Metfield, *H.B.C.* :—Wortham Green, *C.J. Ashfield.*

5. Woolverstone ; Shelley and Shrubland :—Ashbocking, *F.C.S.* :—Hemingstone, *T.B.* :—Falkenham, *Haward.* :—Brantham, *C.B.*

Earliest record 1773. Sir J. Cullum.

4. *C. Acinos*, *Clairv.* *C. arvensis*, Lam. *Basil Thyme.*

Bab. Man. 279. Hook. St. Fl. 321. H. & S. 65. Hist. Bury. Galp. 127. Top. Bot. Suff. E and W.

Annual ; on dry, sandy, or chalky soil. July, Aug.

1. Brandon || ; Barnham || ; Thetford ; Euston ; Fakenham ; Troston ; Bury ; Risby ; Wordwell ; Barton Mills ; Wangford ; Haughley :—Cavenham, *Hb. Sk.* :—Icklingham, *Hb. Blk.* :—Mildenhall, *Hb. Dun.* :—Barton, *Sir C.J.F.B.* :—Culford Heath, *Gray.* :—Thurston and Tuddenham, *E.Sk.* :—Fornham, *Hb. Ly.*

2. Railway Cutting, Melford, *J.F.W. & C.B.*

3. Fritton :—Bungay, *Stock.* :—Lowestoft, *H. G. Glasspoole in Hb. Geld.*

4. Redgrave || :—Friston, *E.N.B.*

5. Sudbourne, *E.N.B.* :—Aldeburgh and Orford, *H. & S.* :—Lit. Blakenham, *Haward.*

Earliest record 1773. Sir J. Cullum.

6. *C. Clinopodium*, *Benth.* *Wild Basil.*

Bab. Man. 279. Hook. St. Fl. 320. H. & S. 65. Hist. Wher. Galp. 94. Top. Bot. Suff. E. and W.

Herbaceous perennial ; in woods and on hedge-banks.

July, August.

1. Honington || ; Fakenham ; Bardwell ; Ixworth ; Livermere ; Risby ; Westley Wood ; Market Weston ;

Haughley:—Barton, *Hb. Blk.*:—Bury, *Hb. Sk.*:—Hardwick and Nowton, *Hb. Wils.*:—Pakenham, *Hb. Cas.*:—Stowlangtoft, *Hb. Rk.*:—Barningham, *Gray.*

2. Bildeston; Wickhambrook:—Melford and Cockfield, *C.B.*:—Hitcham, *Hb. Hens.*:—Rede, *Hb. Turn.*

3. Beccles, *W. M. Crowfoot*:—Bradwell, *J. Priest in Hb. Geld.*

4. Botesdale and Mellis:—Wortham Green, *C. J. Ashfield*:—Sternfield and Framlingham, *E.N.B.*:—Mendham Priory Plantations, *Galp.*

5. Otley, *E.N.B.*:—Grundisburgh, *T.H.*:—Ashbocking, *F.C.S.*:—Needham Market, *E. Clowes*:—Claydon:—Wherstead, *Haward.*

Earliest record 1773. Sir J. Cullum.

Scutellaria, *Linn.*

1. *S. galericulata*, *Linn.* *Common Skullcap.*

Bab. Man. 279. Hook. St. Fl. 324. H. & S. 66. Hist. Fram.
Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 95.

Herbaceous perennial; on the banks of streams and ditches. July, August.

Frequent in all the districts.

Earliest record 1773. Sir J. Cullum.

2. *S. minor*, *Linn.* *Lesser Skullcap.*

Bab. Man. 279. Hook. St. Fl. 324. H. & S. 66. Top. Bot.
Suff. W.

Small herbaceous perennial; on moist heaths.

July to September.

1. Tuddenham, *Dr. Bromfield & Hb. Wils.*

4. Friston, *Hele.*

Earliest notice 1833. Hb. Wilson.

Prunella, *Linn.*

1. *P. vulgaris*, *Linn.* *Brunella vulgaris*, *Linn.*
Common Self-heal.

Bab. Man. 280. Hook. St. Fl. 323. H. & S. 66. Hist. Wher.
Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 95.

Herbaceous perennial; in damp pastures. July, Aug.

Common in all the districts.

Several specimens of a neat dwarf form from Tuddenham appear in *Hb. Wils.*

Earliest record 1773. Sir J. Cullum.

Nepeta, *Linn.*

1 *N. Cataria*, *Linn.*

Cat-mint.

Bab. Man. 280. Hook. St. Fl. 322. H. & S. 66. Hist. Fram.
Top. Bot. Suff. E. and W. Galp. 95.

Perennial herb ; on banks and waste places.

July, August.

1. Honington || ; Fakenham ; Sapiston ; Ixworth ; Market Weston ; Troston ; Langham ; between Kentford and Higham ; West Row ; Mildenhall ; Lakenheath ; Culford Heath :—Bardwell, *Hb. Blk.* :—Bury, *Hb. Wils.* :—Barton ; between Worlington and Kennet, *Sir C.J.F.B.* :—Barningham, *Gray* :—Stowlangtoft, *Rk.* :—Tuddenham, *W.J.*

2. Gt. Thurlow, *Hb. F.* :—Stanstead, *Hb. Ly.*

3. Herringfleet, *Hb. Dun.* :—Flixton, *H.B.C.* :—Bungay, *Ms. Davy* :—Covehithe Ruins, *F. Sk.* :—Oulton, *McAub.*

4. Easton and Glemham, *Crabbe* :—Brandeston and Friston, *E.N.B.* :—Thorpe, *Sk. ms.* :—Wortham, *Collins.*

5. Hemingstone, *T.B.* :—Sudbourne, *E.N.B.* :—Wherstead, *Haward.*

Earliest record 1773. Sir J. Cullum.

2 *N. Glechoma*, *Benth.*

Ground Ivy.

Bab. Man. 280. Hook. St. Fl. 323. H. & S. 66. Hist. Wher.
Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 95.

Creeping herbaceous perennial ; in woods and hedges.

Frequent in all the districts.

April to June.

Earliest record 1773. Sir J. Cullum.

Lamium, *Linn.*

1 *L. amplexicaule*, *Linn.*

Henbit.

Bab. Man. 280, 1. Hook. St. Fl. 329. H. & S. 67. Hist. Wher.
Hist. Yarm. Top. Bot. Suff. E. and W.

Annual weed ; on cultivated ground.

May to Aug.

Frequent in all the districts ; especially on light soil.

Earliest record 1773. Sir J. Cullum.

3 *L. incisum*, *Willd.*

L. hybridum, *Vill.*

Cut Dead Nettle.

Bab. Man. 281. Hook. St. Fl. 329. H. & S. 67. Hist. Yarm.
Top. Bot. Suff. E. and W. Galp. 96.

Annual weed ; on waste and cultivated ground.

April to June.

1. Honington ||; Ingham :—‘In great plenty at Hunnington, Suffolk; also in a field of tares at Pakenham,’ *Rev. G. R. Leathes*, With. :—Barton, *Hb. Blk.* :—Hardwick, *Hb. Wils.* :—Stowlangtoft, *Hb. Rk.* :—Walsham, *Hb. Dun.* :—Gt. Welnetham, *E. S. Marshall*.

2. Hitcham, *Hb. Hens.* :—Cockfield, *C.B.* :—Kedington, *Hb. F.* :—Kersey, *E.F.L.*

3. ‘In corn-fields near Bungay, frequent,’ *Woodward* :—Gorleston, *J. Priest in Hb. Geld.*

4. ‘Frequent about Saxmundham,’ *Sir J. E. Smith* :—Gt. Glemham, *E.N.B.* :—Weybread, *H.B.C.* :—between Eye and Hoxne, and at Hoxne, *E. S. Marshall* :—Sizewell.

5. Gt. Bealings, *Moor* :—Needham Market, *Hb. Jeffes*.
Earliest notice 1802. Wigg.

4. *L. purpureum*, Linn. *Red Dead Nettle.*

Bab. Man. 281. Hook. St. Fl. 329. H. & S. 67. Hist. Wher.
Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 96.

Annual weed; on waste and cultivated ground.

Common in all the districts.

April to August.

L. decipiens, Sonder.

Bab. Man. 281. Hook. St. Fl. 329.

1. Pakenham, *Hb. Cas.* :—Stowlangtoft, *Hbb. Blk. & Rk.* :—Walsham, *Hb. Dun.* :—Barningham ||, *E.F.L.*

2. Kersey, *E.F.L.*

4. Withersdale, *Galp.*

Earliest record 1773. Sir J. Cullum.

5. *L. album*, Linn. *White Dead Nettle.*

Bab. Man. 281. Hook. St. Fl. 329. H. & S. 67. Hist. Wher.
Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 96.

Herbaceous perennial weed; in woods and by hedges.

Frequent in all the districts.

May, June.

Earliest record 1773. Sir J. Cullum.

[*L. maculatum*, Linn. *Spotted Dead Nettle.*

Bab. Man. 281. Hook. St. Fl. 329,30.

Herbaceous perennial; usually a garden escape.

June to August.

1, Honington || :—Euston, *Hb. FitzR.* :—Walsham, *Hb. Dun.*
2. Stuston.

L. lævigatum, Linn.

Bab. Man. 281. Hook. St. Fl. 329.

1. Pakenham Fen, *Hb. Rk.* 1840. Rev. S. Rickards.]

6. *L. Galeobdolon*, *Crantz.* *Yellow Archangel,*
Weaselsnout.

Bab. Man. 281, 2. Hook. St. Fl. 330. H. & S. 67. Hist. Wher.
Top. Bot. Suff. E. and W. Galp. 96.

Herbaceous perennial; in woods and shady ditches.

May, June.

1. Thurston; Hinderclay; Mildenhall:—Bury, *Hb. Wils.*:—Langham, *Hb. Blk.*:—Pakenham, *Hb. Cas.*:—Stowlangtoft, *Hb. Rk.*:—Walsham, *Hb. Dun.*:—Hardwick, *H. & S.*:—Felsham Wood, *Sk. ms.*:—Bradfield, *Ms. Davy.*

2. Nayland ||; Stoke; Polstead; Somerton:—Wiston, *C.B.*:—Hitcham, *Hb. Hens.*:—Cockfield, *W.J.*:—by Hadleigh Brick-kiln, *F. Spalding*:—Rede, *Hb. Turn.*

3. Barsham, *W. M. Crowfoot*:—Bungay, *Stock*:—Homersfield, *H.B.C.*

4. Gt. Glemham, *E.N.B.*:—Burgate Wood:—Redgrave, *Rev. W. H. Sewell*:—Cookley and Sibton, *Holland*:—Westleton Decoy, *F. Spalding*:—Yoxford, *Ms. Davy*:—Leiston, *Mrs. Toller.*

5. Gt. Bealings, Hasketon Toll-gate, *Moor*:—Grundisburgh, *T.H.*:—Gosbeck, *F. Fox*:—Ashbocking, *F.C.S.*:—Needham Market, *E. Clowes*:—Barking Wood, *Hb. Jeffes*:—Wherstead, *Haward*:—Dodnash Wood, *I.S. Soc.*:—Woodbridge, *Hb. Ly.*

Earliest record 1773. 'A curious and elegant variety of this plant, "*Corolla, vel flore terminali, plana, sexfida,*" in a lane near the Grove at Hardwick, a mile-and-a-half from Bury; first observed by Sir John Cullum in 1774, and several times since by myself,' *Sir T. G. Cullum.*

First notice 1773. Sir J. Cullum.

Leonurus, *Linn.*

1. *L. Cardiaca*, *Linn.* *Motherwort.*

Bab. Man. 282. Hook. St. Fl. 328. H. & S. 67. Hist. Bury.
Hist. Yarm.

Tall herbaceous perennial; in hedges and waste places.

August.

1. Bury, *Sir J. Cullum*:—Pakenham, *Hb. Cas.*:—Stowlangtoft, *Hb. Rk.*

3. About Bungay, *Woodward* :—North Cove, *F. Turner* :—Belton, *Wigg*.

Earliest record 1773. Sir J. Cullum.

Galeopsis, *Linn.*

1. *G. dubia*, *Leers*. Cream-coloured Hemp Nettle.

Bab. Man. 282. Hook. St. Fl. 327.

Annual plant ; in sandy corn-fields ; rare. July, Aug.

3. St. Olaves, *Phyt.* 1862.

2. *G. Ladanum*, *Linn.* Red Hemp Nettle.

Bab. Man. 282. Hook. St. Fl. 327. H. & S. 67. Hist. Wher.

Top. Bot. Suff. E. and W.

Annual plant ; in gravelly and sandy soils. Aug., Sep.

1. Haughley ; Mildenhall :—Barton, *Hb. Blk.* :—Wals-
ham, *Hb. Dun.* :—Bury, *Sir J. Cullum* :—Culford Heath,
Gray :—Hardwick ; Pakenham and Rougham, *H. & S.*

2. Cockfield and Gt. Waldingfield, *C.B.* :—Hitcham,
Hb. Hens. :—Rede, *Hb. Turn.* :—Lit. Thurlow ||, *Hb. F.* :—
Kersey, *E.F.L.*

3. Bungay, *Stock* :—Oulton, *McAub.*

4. Burgate, *C. J. Ashfield* :—Gt. Glemham, *E.N.B.*

5. Sutton, *Sir J. Cullum* :—Aldeburgh, *Moor* :—Grun-
disburgh, *T.H.* :—Wherstead, *Haward.*

c. *G. canescens*, *Schultz.* *G. angustifolia*, *Ehrh.*

2. Hitcham ||, *Hb. Hens.* 5. Wherstead, *Haward.*

Earliest record 1773. Sir J. Cullum.

3. *G. Tetrahit*, *Linn.* Common Hemp Nettle.

Bab. Man. 282,3. Hook. St. Fl. 327. H. & S. 67. Hist. Fram.

Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W.

Annual weed ; in thickets and cultivated fields.

Common in all the districts. July to September.

b. *G. bifida*, *Bonn.*

Bab. Man. 283. Hook. St. Fl. 327.

1. Honington || ; Sapiston ; Westley Wood ; Milden-
hall || :—Woolpit, *J. Rasor.*

2. Long Melford.

4. Botesdale :—Badingham, *T.W.G.* :—Mendham, *Galp.*

Earliest record 1773. Sir J. Cullum.

4. *G. versicolor*, Curt. *G. speciosa*, Mill.
Large-flowered Hemp Nettle.

Bab. Man. 283. Hook. St. Fl. 327. H. & S. 67. Hist. Yarm.
 Top. Bot. Suff. E. Galp. 96.

Annual weed ; in cultivated fields. July, August.

1. Mildenhall, *Hb. Blk.* :—Bradfield, *Rev. P. Lathbury*.

2. Cockfield, *C.B.* :—Brettenham, *Hb. Sk.* :—Sudbury,

J.S.H.

3. Beccles, *F. Turner* :—Bradwell & Gorleston, *Paget* :
 —Bungay, *Stock* :—Sotterley, *H. & S.* :—Barnby, *E. Sk.*

4. Blythburgh and Leiston, *Crabbe* :—Eye, *Hb. Jeffes* :
 —Huntingfield, *Holland* :—Framlingham, *Crabbe*.

Earliest notice 1798. Rev. G. Crabbe.

Stachys, Linn.

1. *S. Betonica*, Benth. *Betony.*

Bab. Man. 283. Hook. St. Fl. 326. H. & S. 66. Hist. Fram.
 Hist. Wher. Top. Bot. Suff. E. and W. Galp. 95.

Herbaceous perennial ; in woods and moist heaths.

July, August.

1. On hillocks in Market Weston Fen || ; Fakenham
 Wood ; Sapiston Grove ; Livermere and Ickworth Park :—
 Rushbrooke, *Hb. Sk.* :—Stanton, *Hb. Dun.* :—Dalham, *Rev.*
F. Tearle :—Gedding, *J. Rasor* :—Bradfield, *Rev. P. Lathbury* :
 —Rougham ; Barrow and Lackford, *H. & S.* :—Beyton, *Hb.*
Wils. :—Felsham, *Sk. ms.*

2. Wiston and Polstead :—Melford Wood and Gt.
 Waldingfield, *C.B.* :—Hitcham, *Hb. Hens.* :—Cockfield, *W.J.*

3. Oulton, *McAub.*

4. Framlingham, *Crabbe & E.N.B.* :—Syleham, *H.B.C.* :
 —Wortham, *Collins.*

5. Wherstead, *Haward* :—Bosmere, *Hb. Jeffes* :—Bent-
 ley, *I. S. Soc.*

Earliest notice 1773. Sir J. Cullum.

3. *S. silvatica*, Linn. *Hedge Woundwort.*

Bab. Man. 283. Hook. St. Fl. 325. H. & S. 66. Hist. Fram.
 Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 95.

Herbaceous perennial ; in woods and hedges.

Common in all the districts.

July, August.

Earliest record 1773. Sir J. Cullum.

4. *S. palustris*, Linn. Marsh Woundwort.

Bab. Man. 284. Hook. St. Fl. 325, 6. H. & S. 66. Hist. Fram. Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 95.

Herbaceous perennial ; on river banks and moist places.
Common in all the districts. July, August.

b. *S. ambigua*, Sm.

Bab. Man. 284. Hook. St. Fl. 326.

1. Sapiston || ; Lakenheath. 3. Belton ||, 1882.

A form intermediate between *S. palustris* and *S. ambigua*, having a flexuous stem, ovato-lanceolate, sessile leaves, flowers larger than in the type, not unfrequently is found.—Sp. from Bury in *Hb. Wils.*

Earliest record 1640. Parkinson.

5. *S. arvensis*, Linn. Field Woundwort.

Bab. Man. 284. Hook. St. Fl. 326. H. & S. 66. Hist. Fram. Hist. Yarm. Galp. 95. Top. Bot. Suff. E. and W.

Annual weed ; in corn-fields. July, August.

Frequent in all the districts.

Earliest record 1773. Sir J. Cullum.

Ballota, Linn.

1. *B. foetida*, Lam. *B. nigra*, Linn. Black Horehound.

Bab. Man. 284. Hook. St. Fl. 330. H. & S. 67. Hist. Wher. Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 96.

Herbaceous perennial ; in hedges and waste places.

Frequent in all the districts. July, August.

Earliest record 1773. Sir J. Cullum.

Marrubium, Linn.

1. *M. vulgare*, Linn. White Horehound.

Bab. Man. 284. Hook. St. Fl. 325. H. & S. 66. Hist. Yarm ? Top. Bot. Suff. E. and W. Galp. 95.

Herbaceous perennial ; borders of sandy fields.

August, September.

1. Fakenham || ; Cavenham ; Brandon :—Barnham, *Hb. F.* :—Barton, *Hb. Blk.* :—Bury, *Hb. Wils.* :—Pakenham, *Hb. Cas.* :—on turf-bank, Tuddenham, *Hb. Sk.* :—Risby, *W.J.* :—Culford, *H. & S.* :—two localities near Icklingham ; Lakenheath ; West Stow, *Sk. ms.*

2. Hitcham, *Hb. Hens.*:—Long Melford, *J.F.W.*:—Semer, *H. & S.*

4. Framlingham, *T.W.G.*:—Site of St. Nicholas, South Elmham (E.A.H.), extinct, *Galp.*

5. Ipswich, *T.W.G.*

Earliest record 1773. Sir J. Cullum.

Teucrium, *Linn.*

1. *T. Scorodonia*, *Linn.* *Wood-Sage.*

Bab. Man. 285. Hook. St. Fl. 331. H. & S. 67. Hist. Fram.
Hist. Yarm. Hist. Bury. Galp. 96. Top. Bot. Suff. E. and W.
Hist. Wher.

Shrubby herbaceous perennial; in woods. July, Aug.
Frequent in all the districts.

Earliest record 1773. Sir J. Cullum.

2. *T. Scordium*, *Linn.* *Water Germander.*

Bab. Man. 285. Hook. St. Fl. 331. H. & S. 68. Top. Bot. Suff. W.
Herbaceous perennial; in wet places; rare. Aug., Sep.

1. Lakenheath, *H. & S.* The original authority for this plant in Suffolk is unknown, and its claim to a place in its Flora is questionable.

Earliest notice 1860. Henslow and Skepper.

Ajuga, *Linn.*

1. *A. reptans*, *Linn.* *Common Bugle.*

Bab. Man. 285. Hook. St. Fl. 332. H. & S. 68. Hist. Yarm.
Top. Bot. Suff. E. and W. Galp. 96.

Herbaceous perennial; in moist woods and pastures.

Common in all the districts. May, June.

Earliest record 1773. Sir J. Cullum.

VERBENACEÆ.

Verbena, *Linn.*

1. *V. officinalis*, *Linn.* *Common Vervain.*

Bab. Man. 286. Hook. St. Fl. 313. H. & S. 68. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. and W. Galp. 93.

Herbaceous perennial; on waste ground and waysides.

July, August.

1. Honington ||; Fakenham; Ixworth Thorpe; Risby; Thetford; Barton Mills; Lakenheath:—Bury, *Hbb. Sk. & Wils.*:—Pakenham, *Hb. Cas.*:—Stowlangtoft, *Hb. Rk.*:—Walsham, *Hb. Dun.*:—Barton and Mildenhall, *Sir C.J.F.B.*:—Barningham, *E.F.L.*:—Tuddenham, *E. Sk.*:—Fornham All Saints, *Hb. Ly.*

2. Bildeston; Stoke-by-Clare; Wiston:—Melford, Lawshall and Cockfield, *C.B.*:—Hitcham, *Prof. Hens.*:—Lit. Thurlow, *Hb. F.*:—Rede, *Hb. Turn.*:—Kersey, *Gray*:—Road to Whatfield, Hadleigh, *F. Spalding.*

3. Fritton:—Flixton, *H.B.C.*:—Lowestoft, *E. Sk.*:—Oulton, *McAub.*

4. Dunwich:—Gt. Glemham, *E.N.B.*:—Laxfield, *T.W.G.*:—Palgrave, *Collins.*

5. Stutton; Walton; Claydon and Needham Market:—Gt. Bealings, *Moor*:—Grundisburgh, *T.H.*:—Ashbocking, *F.C.S.*:—Hemingstone, *T.B.*:—Coddensham, *F. Fox*:—Felixstowe, *H.M.S.*:—Wherstead, *Haward*:—Letheringham and Belstead, *I.S. Soc.*

Earliest record 1773. Sir J. Cullum.

LENTIBULARIACEÆ.

Pinguicula, *Linn.*

1. *P. vulgaris*, *Linn.* *Common Butterwort.*

Bab. Man. 287. Hook. St. Fl. 811. H. & S. 55. Hist. Bury. Top. Bot. Suff. W.

Small herbaceous perennial; with handsome flowers, in bogs and fens. May, June.

1. Market Weston ||; Coney Weston; Hopton; Thel-netham; Hinderclay:—Lackford Bridge, *Dill. Ray in Hort. Ox.*:—Pakenham Fen, *Hb. Cas.*:—Stowlangtoft, *Hb. Rk.*:—Mildenhall, *Hb. Blk.*:—Tuddenham, *Hb. Wils.*:—Langham, *Miss Wilson.*

4. Redgrave Fen, *Hb. Dun.*

'*P. lusitanica* & *P. vulgaris* both together in the bogs near Lackford Bridge, 7 miles from Bury, Sir Jno. Cullum,' *Note in Dill. Ray in Hort. Ox.* This is the only reference to *P. lusitanica* in Suffolk. It is likely that a great change took place in Lackford Bog or Fen by converting the Lark into a canal, by which various plants became extinct.

Earliest record 1773. Sir J. Cullum.

Utricularia, Linn.

1. *U. vulgaris*, Linn. *Greater Bladderwort.*

Bab. Man. 287. Hook. St. Fl. 312. H. & S. 55. Hist. Yarm.
Hist. Bury. Top. Bot. Suff. E. and W. Galp. 93.

Showy herbaceous perennial ; in fen pools and ditches.
June to August.

1. Ixworth Thorpe || ; Hopton ; Coney Weston ; Thelnetham ; Santon Downham ; Lakenheath :—Lackford Bridge, *Hbb. Blk. & Rk.*, & *Dill. Ray in Hort. Ox.*—Pakenham Fen, *Hb. Cas.* :—Tuddenham, *Hb. Sk.* :—Market Weston, *Gray* :—Mildenhall, *Sir C.J.F.B.*

3. Benacre ; Beccles ; Worlingham ; Carlton Colville :—Oulton Dam and Belton, *Sk. ms.* :—Bungay Common and Stow Fen, *F. Spalding*.

4. Redgrave Fen || :—Wenhaston, *W.J.* :—Leiston, *Hele.* :—Mendham, *Galp.*

Earliest record 1773. Sir J. Cullum.

2. *U. neglecta*, Lehm. *Neglected Bladderwort.*

Bab. Man. 287. Hook. St. Fl. 312.

Showy herbaceous perennial ; in fen ditches.

July, August.

1. Lakenheath. 3. Kessingland || ; Belton ||.

First notice 1884. Hind.

4. *U. minor*, Linn. *Smaller Bladderwort.*

Bab. Man. 288. Hook. St. Fl. 312. H. & S. 55. Hist. Yarm.
Hist. Bury. Top. Bot. Suff. E. and W.

Small perennial ; floating in ditches or fen pools.

June to August.

1. Thelnetham Fen || :—Lackford Bog, *Hbb. Blk. & Rk.*, and *Dill. Ray in Hort. Ox.* :—‘In bogs between Cavenham and Icklingham, and between Cavenham and Tuddenham,’ *Sir T. G. Cullum* :—Brandon, *H. & S.* :—Tuddenham, *Hb. Sk.*

2. Cockfield, *C.B.*

3. Bogs at Lound and on Gorleston Common, *Wigg* :—Old turf-pits at Herringfleet, *D. Turner* :—Belton, *Paget* :—St. Olaves Bridge, *Trimmer*.

4. Redgrave Fen, *C. J. Ashfield*.

Earliest record 1775. Sir J. Cullum.

PRIMULACEÆ.

Hottonia, Linn.

1. *H. palustris*, Linn.

Water Violet.

Bab. Man. 289. Hook. St. Fl. 266. H. & S. 53. Hist. Fram.
Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 85.

Herbaceous aquatic perennial; in ditches. May, June.

1. Sapiston ||; Ixworth Thorpe ||; Ixworth; Bardwell; Fakenham; Lakenheath; Harleston:—Pakenham, *Hb. Cas.*:—Stowlangtoft, *Hb. Rk.*:—Tuddenham, *C. Rose in Hb. Wils.*:—Walsham, *Hb. Dun.*:—Mildenhall, *Sir C.J. F.B.*:—Market Weston Fen, *Gray*:—Woolpit and Shelland Green, *F.*:—Onehouse, *J. Rasor*:—Bradfield Combust, *Mrs. Carss*:—Lackford, *Hb. Ly.*

2. Nayland:—Cockfield, *C.B.*:—Sudbury, *J.S.H.*:—Melford, *J.F.W.*

3. St. Olaves; Fritton; Lowestoft; Kessingland:—Bungay, *Stock*:—Belton, *Phyt. 1862, 3*:—Somerleyton and Benacre, *Sk. ms.*:—Oulton, *McAub.*

4. Redgrave; Burgate; Mellis Green:—Framlingham, *Crabbe*:—Farnham and Knodishall, *E.N.B.*:—Hazlewood, *Hele*:—Huntingfield, *Holland.*

5. Baylham, *Hb. F.*:—Barking, *T.B.*:—Ipswich, *W.L.N.*:—Bergholt, *Dr. White*:—Bramford, *Miller.*

Earliest record 1773. Sir J. Cullum.

Primula, Linn.

1. *P. vulgaris*, Huds.

Common Primrose.

Bab. Man. 290. Hook. St. Fl. 261. H. & S. 53. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. and W. Galp. 85.

Showy herbaceous perennial; in woods & hedge-banks.
Common in all the districts. March to May.

b. P. variabilis, Goup. *P. caulescens*, Bab.

Bab. Man. 290. Galp. 85.

1. Fakenham Wood ||; Honington; Sapiston:—Stowlangtoft, *Hb. Rk.*

2. Lit. Thurlow, *Hb. F.*

3. Hobland; Bradwell, *Paget.*

4. Framlingham, *Crabbe* (named by him *P. elatior*):—Gt. Glemham, *E.N.B.*

5. Aldeburgh, *Hele*.

Earliest record 1773. Sir J. Cullum.

2. *P. veris*, Linn.

Cowslip. Paigle.

Bab. Man. 290. Hook. St. Fl. 261. H. & S. 53. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. and W. Galp 85.

Herbaceous perennial; in pastures, occasionally in woods.

April, May.

Frequent in all the districts; apparently absent from the Breck country, but found at Mildenhall. A plant with compound stem and globose head, sent to C.B. from Ashbocking by the Rev. M. B. Cowell.

Earliest record 1773. Sir J. Cullum.

3. *P. elatior*, Jacq.

Oxlip.

Bab. Man. 290. Hook. St. Fl. 261. H. & S. 53. Hist. Wher.
Top. Bot. Suff. W. J. Ray.

Showy herbaceous perennial; in woods, rarely in meadows.

April, May.

Apparently absent from the N.E. part of Suffolk. *P. elatior* of Hist Fram. and Hist. Yarm., is undoubtedly *P. variabilis*, Goup., which is only an exuberant state of *P. vulgaris*. It is also absent from the Breck country, and the fens in the N.W. of the county. Its most Northerly station is Bungay, where it seems to be rare. Fakenham Wood is the next most Northern locality, where it is tolerably abundant, and where occasionally hybrids with *P. vulgaris* and *P. veris* occur. Further information as to its occurrence in N.E. is desired. It occurs in Norfolk, Galp. 85.

1. Fakenham Wood ||; Sapiston; Troston; Ixworth Thorpe:—Barton, *Hb. Blk.*:—Nowton, *Hb. Wils.*:—Pakenham, *Hb. Cas.*:—Walsham, *Hb. Dun.*:—Timworth Wood, *Gray*:—Finborough, *Sir J. E. Smith*:—Hawstead, *H. & S.*:—Fornham, *E. Sk.*:—Clayey pastures in Suffolk, *M.M.*

2. Cockfield, *C.B.*:—Hitcham, *Hb. Hens.*:—Lit. Thurlow, *Hb. F.*:—Rede, *Hb. Turn.*:—Stansfield and Lidgate, *Rev. F. Tearle*:—Melford, *J.F.W.*:—Hadleigh, *F. Spalding*.

3. Bungay, *Stock.*

4. Burgate Wood:—Dennington, *Hele*.

5. Woolverstone:—Aldeburgh, *Hele*:—Gt. Bealings, *Moor*:—Ashbocking, *F.C.S.*:—Hemingstone, *T.B.*

E.N.B. entertains doubts in reference to nearly all the

East Suffolk localities, believing *P. variabilis* to have been the form seen.

Earliest record 1690. Ray.

[*P. farinosa*, Linn., given in *H. & S.*, can only be a mistake.]

Cyclamen, *Linn.*

1. *C. hederifolium*, *Willd.* Ivy-leaved Sowbread.

Bab. Man. 291. Hook. St. Fl. 262. Sowerby Eng. Bot. t. 548.

Herbaceous perennial; in woods. August.

We owe to the Rev. W. Holland, of Huntingfield, the knowledge that this plant still survives in Suffolk, as evidenced by a living specimen obligingly sent. The *fig.* in Eng. Bot. is from a Suffolk original supplied by Mr. Davy.

3. Henham Park, *Wm. Hay* in *Hist. Southwold*.

4. 'On a steep bank in the parish of Bramfield, Suffolk,' *Ms. Davy*:—'Mr. Woodward assures me that it has lately been found wild in Suffolk,' *With.*:—'Woods! Suffolk,' *W. R. Hayward*:—Abbey Wood, Sibton ||, *Holland*.

Earliest record 1799. Davy.

Lysimachia, *Linn.*

2. *L. vulgaris*, *Linn.* Common Loosestrife.

Bab. Man. 291. Hook. St. Fl. 263. *H. & S.* 54. Hist. Bury.

Top. Bot. Suff. E. and W. Galp. 85.

Herbaceous perennial; wet ground, usually near rivers.

July.

1. Ixworth Thorpe ||; Ixworth; Knettishall; Tud-denham; Lakenheath:—Bardwell, *Hb. Blk.*:—Mildenhall, *Hb. Dun.*:—Icklingham, *J. Gedge*:—Tostock, *Hb. Ly.*

2. Bank of Stour, Nayland:—Stour bank, Gt. Bradley, *Hb. F.*

3. Oulton, *Hb. Sk.*:—Lowestoft, *Dr. Trimen*:—Bungay, *Stock*:—St. Olaves, *Phyt.* 1862:—Somerleyton, *H. & S.*:—Beccles at Roos Hall; Marshes and on Railway-bank between Beccles and Lowestoft; Barnsby Broad, *R. E. Leach*.

4. Redgrave Fen, *C. J. Ashfield*:—Weybread, *H.B.C.*

5. Woodbridge, *H.M.S.*:—Bergholt, *Dr. White*:—the Gipping, near Ipswich, *Miller*.

Earliest record 1773. Sir J. Cullum.

3. *L. Nummularia*, Linn.

Moneywort.

Bab. Man. 292. Hook. St. Fl. 263. H. & S. 54. Hist. Fram.
Top. Bot. Suff. E. and W. Galp. 85.

Herbaceous perennial; in wet pastures. June, July.

1. Sapiston ||; Honington; Fakenham; Knettishall;
Bardwell; Ixworth; Hinderclay:—Beyton, *Hb. Wils.*:—
Pakenham, *Hb. Cas.*:—Stowlangtoft, *Hb. Rk.*:—Walsham,
Hb. Dun.:—Hawstead, *Sir J. Cullum*:—Mildenhall, *Sir*
C.J.F.B.:—Rattlesden and Bury, *H. & S.*:—West Stow &
Felsham, *Sk. ms.*

2. Wickhambrook; Melford; Acton and Wiston:—
Cockfield, *C.B.*:—Hitcham, *Hb. Hens.*:—Sudbury, *J.S.H.*:
—Lit. Thurlow ||, *Hb. F.*:—Rede, *Hb. Turn.*:—Depden,
Moor:—Hadleigh, *F. Spalding*.

3. Bungay; Beccles:—Oulton, *Mrs. McAub.*

4. Mellis; Eye; Cookley:—Gt. Glemham and Rend-
ham, *E.N.B.*:—Framlingham, *Crabbe*:—Mendham; Wey-
bread, *Galp.*

5. Woolverstone:—Gt. Bealings, *Moor*:—Grundis-
burgh, *T.H.*:—Melton, *F. Spalding*:—Ashbocking, *F.C.S.*:
—Gosbeck, *T.B.*:—Bramford, *I.S. Soc.*

Earliest record 1773. Sir J. Cullum.

4. *L. nemorum*, Linn.

Wood Loosestrife.

Bab. Man. 292. Hook. St. Fl. 263. H. & S. 54. Hist. Fram.
Hist. Wher. Hist. Bury. Top. Bot. Suff. E. and W. Galp. 85.

Prostrate herbaceous perennial; in woods. June, July.
Apparently not found in the Breck country.

1. Hinderclay; Shelland ||:—Woolpit Road, *Hb. Cas.*:
—Bury, *Sir J. Cullum*:—Clopton Hall, *Mrs. Parker*:—Fels-
ham Wood, *W.J.*:—Haughley and Rushbrooke, *H. & S.*

2. Wiston ||; Polstead:—Cockfield, *C.B.*:—Hitcham,
Hb. Hens.:—Oakwood at Hadleigh, *F. Spalding*:—Naugh-
ton, *H. & S.*

3. Lowestoft, *Hb. Sk.*:—Bungay, *Stock.*:—Flixton,
H.B.C.:—Oulton, *McAub.*:—Fritton, *H. & S.*:—Reydon,
Hist. Southwold.

4. Burgate Wood:—Gt. Glemham, *E.N.B.*:—Fram-
lingham, *Crabbe*:—near Weybread, *H.B.C.*

5. Woolverstone:—Sudbourne, *Hele*:—Freston, *W.L.N.*:
—Gosbeck, *T.B.*:—Sutton, *F. Spalding*:—Wherstead, *Ha-*
ward:—Gosbeck Wood, *I. S. Soc.*

Earliest record 1773. Sir J. Cullum.

Glaux, *Linn.*

1. *G. maritima*, *Linn.*

Sea Milkwort.

Bab. Man. 292. Hook. St. Fl. 264. H. & S. 54. Hist. Yarm.
Top. Bot. Suff. E.

Herbaceous perennial; sea-shore; usually on turf exposed to the salt spray, or occasionally submerged.

June to August.

3. Lowestoft; Gorleston; Burgh Castle; Benacre:—Southwold, *Hb. Dun.*:—Breydon Broad, *Phyt.* 1862.

4. Dunwich:—Snape and Sizewell, *E.N.B.*

5. Stutton ||; Catawade ||; Chelmondiston; Felixstowe; Aldeburgh:—Sutton, *Sir J. Cullum*:—Orwell, *Ips. Fl.*:—Wherstead, *Haward*:—Melton, *Hb. Ly.*

Earliest record 1773. Sir J. Cullum.

Anagallis, *Linn.*

1. *A. arvensis*, *Linn.*

Scarlet Pimpernel.

Bab. Man. 292. Hook. St. Fl. 265. H. & S. 54. Hist. Fram.
Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 86.

Small annual; in corn-fields and cultivated ground.

Frequent in all the districts.

June, July.

A. carnea, Schrank.

Bab. Man. 292.

1. Near Bury, *Sir T. G. Cullum*.

5. In a fallow at Claydon ||.

Earliest record 1773. Sir J. Cullum.

A. cærulea, *Sm.*

Blue Pimpernel.

Bab. Man. 292. Hook. St. Fl. 265. H. & S. 54. Hist. Bury.
Galp. 86.

Annual. There are two forms of this—the more common, (a) compact in habit, ascending, flowers and leaves rather smaller than those of *A. arvensis*; (b) prostrate in habit, branches straggling, 1 to 2 feet in length, leaves and flowers much larger than in *A. arvensis*.

June, July.

1. Honington ||, (a) and (b), the latter a casual:—near Bury, *Sir T. G. Cullum*:—Woolpit ||, *Hb. F.*:—Gt. Saxham, *Sir J. E. Smith*:—Lit. Welnetham, *Mrs. Carss*:—Exning, *Sk. ms.*:—Santon Downham, *Norgate*.

2. Long Melford, *C.B.*

3. Bungay, *Stock* :—St. Margarets, *Holmes*.

4. Mendlesham, *Moor* :—Westleton, *F. Spalding* :—Middleton, *Ms. Davy*.

5. Aldeburgh, *Hele* :—Barham, *Trimmer* :—Melton and Shelley, *F. Spalding* :—Wherstead, *Haward*.

Earliest record 1804. Sir T. G. Cullum.

2. *A. tenella*, *Linn.*

Bog Pimpernel.

Bab. Man. 292,3. Hook. St. Fl. 265. H. & S. 54. Hist. Yarm.

Top. Bot. Suff. E. and W.

Herbaceous perennial ; in spongy bogs and turf.

Occurs in all the districts.

June, July.

Earliest record 1773. Sir J. Cullum.

Centunculus, *Linn.*

1. *C. minimus*, *Linn.* *Bastard Pimpernel.* *Chaffweed.*

Bab. Man. 293. Hook. St. Fl. 265. H. & S. 54. Hist. Yarm.

Top. Bot. Suff. E. and W?

Tiny annual ; in sandy, gravelly, or peaty soil.

June, July.

1. Wangford, *Hb. Cas.* and *G. C. Druce*.

3. East Heath, near Oulton, *Wigg* :—Lowestoft, *Hb. Sk.* :

—Oulton Broad, *Paget* :—Belton and Herringfleet, *H. & S.*

Earliest record 1805. *Wigg*.

Samolus, *Linn.*

1. *S. Valerandi*, *Linn.*

Common Brookweed.

Bab. Man. 293. Hook. St. Fl. 266. H. & S. 54. Hist. Fram.

Hist. Yarm. Hist. Bury. Top. Bot. Suff. E. and W. Galp. 86.

Herbaceous perennial ; in fens and watery places.

July, August.

1. Ixworth Thorpe || ; Market Weston ; Lakenheath :—Mildenhall Fen, *Hb. Cas.* :—Pakenham Fen, *Hb. Rk.* :—Tuddenham Bog, *Hb. Wils.* :—Cavenham Severals, *Sk. ms.*

3. Lowestoft, *Hb. Sk.* :—Bungay, *Stock* :—North Cove ; St. Margarets, *Holmes* :—Burgh Castle, *Phyt. 1862* :—Ben-acre, *Sk. ms.* :—Oulton, *McAub.* :—Beccles :—Lake Lothing, *C.B.* :—Southwold, *J.H.G.*

4. Dunwich :—Aldringham, *Hb. Cas.* :—Redgrave Fen, *Hb. Dun.* :—Framlingham, *Crabbe* :—Gt. Glemham, Snape and Benhall, *E.N.B.* :—Weybread, *H.B.C.* :—Middleton, *Ms. Davy*.

5. Ipswich, *W.L.N.* :—Bawdsey :—Falkenham, *Haward* :—Orford.

Earliest record 1773. Sir J. Cullum.

PLUMBAGINACEÆ.

Statice, *Linn.*

1. *S. Limonium*, *Linn.* *Sea Lavender.*

Bab. Man. 293, 4. Hook. St. Fl. 259. H. & S. 68. Hist. Wher.

Top. Bot. Suff. E.

Herbaceous perennial; in salt marshes. July to Sep.

3. Southwold, *Hbb. Dun. & Rk.*

4. Walberswick :—Thorpe, *Hele* :—Blythburgh, *F. Spalding.*

5. Chelmondiston ||; Stutton ||; Wherstead :—Felixstowe, *Hb. Cas.* :—Ipswich, *Hb. Blk.* :—Orford, *E.N.B.* :—Aldeburgh, *Moor* :—Catawade, *E.F.L.* :—Woodbridge, *Hb. Ly.* :—Sutton, *F. Spalding.*

S. pyramidalis, Syme. *S. Behen*, Drejer.

Hook. St. Fl. 259.

3. Southwold, *Trimmer.* 4. Walberswick, *Trimmer.*

5. Woolverstone, *H.M.S.* :—Freston, *Miss Cowell.*

Earliest notice 1807. Woodward.

2. *S. bahusiensis*, *Fries.* *S. rariflora*, Drej.

Distant flowered Sea Lavender.

Bab. Man. 294. Hook. St. Fl. 259. H. & S. 68. Top. Bot. Suff. E. Hist. Wher.

Herbaceous perennial; in salt marshes. July, Aug.

4. Walberswick.

5. Chelmondiston ||; Stutton || :—Wherstead, *Haward* :—Hog Island, *Phyt.*

Earliest notice 1807. Woodward.

(*S. Caspia*, Willd., has been given for Suffolk by three of our best authorities, but without a locality. Our inquiries on the subject lead to the conclusion that it has been erroneously given.)

Armeria, *Willd.*

1. *A. maritima*, *Willd.*

Thrift. Seapink.

Bab. Man. 295. Hook. St. Fl. 258. H. & S. 68. Top. Bot. Suff. E. Hist. Wher.

Herbaceous perennial; on muddy sea-shores.

April to September.

3. Lowestoft, *Hb. Sk.*:—Southwold, *Woodward*.

4. Walberswick.

5. Catawade ||; Aldeburgh:—Landguard Fort, *Hb. Blk.*:—Felixstowe, *W.J.*:—Bawdsey Ferry, *Sir J. Cullum*:—Wherstead, *W.L.N.*:—Woodbridge, *Hb. Ly.*

Earliest record 1773. Sir J. Cullum.

PLANTAGINACEÆ.

Plantago Linn.

1. *P. Coronopus*. Linn. *Buckshorn Plantain.*

Bab. Man. 295, 6. Hook. St. Fl. 289, 90. H. & S. 69. Hist.

Yarm. Hist. Wher. Hist. Bury. Top. Bot. Suff. E. and W.

Annual or biennial plant; on sea-shores and gravelly pastures. June, July.

Occurs here and there in all the districts.

A remarkably compound form, *P. multispicata*, was found at Southwold || by the late *Rev. E. A. Holmes*.

Earliest record 1773. Sir J. Cullum.

2. *P. maritima*, Linn. *Sea Plantain.*

Bab. Man. 296. Hook. St. Fl. 289. H. & S. 69. Hist. Yarm.

Top. Bot. Suff. E.

Herbaceous perennial; on the sea-coast. June to Sep.

3. Burgh Castle; Breydon Water and Southwold:—Lowestoft, *E. Sk.*:—Easton Bavent, *Hb. Ly.*:—Gorleston, *J. Priest in Hb. Geld.*

4. Dunwich and Walberswick:—Snape, *E.N.B.*

5. Felixstowe; Walton; Ipswich; Stutton ||; Catawade:—Aldeburgh, *Hb. Cas.*:—Ramsholt, *Sir J. Cullum*:—Wherstead, *Haward*.

Earliest record 1773. Sir J. Cullum.

3. *P. lanceolata*, Linn. *Ribwort Plantain.*

Bab. Man. 296. Hook. St. Fl. 289. H. & S. 69. Hist. Yarm.

Hist. Wher. Top. Bot. Suff. E. and W. Galp. 97.

Herbaceous perennial; in pastures and meadows.

Common in all the districts.

May to July.

A form with compound spikes was found at Nayland, May 16th, 1884.

Earliest record 1773. Sir J. Cullum.

[P Timbali, Jord.

Timbals Plantain.

Bab. Man. 296. Hook. St. Fl. 289.

An alien ; occasionally in cultivated fields. June, July..

1. Sandy field at Brandon ||, 1887.

5. Felixstowe, introduced, *Purchas*.

Earliest notice 1861. Rev. W. H. Purchas.]

4. *P. media*, Linn.*Lamb's-tongue.*

Bab. Man. 296. Hook. St. Fl. 289. H. & S. 69. Hist. Wher..

Top. Bot. Suff. E. & W. Galp. 97.

Herbaceous perennial ; usually in chalky pastures.

June to September.

1. Honington || ; Fakenham ; Troston ; Onehouse ; Shelland ; Risby ; Higham ; Barton Mills ; Eriswell :—Barton, *Hb. Blk.* :—Bury, *Hbb. Sk. & Wils.* :—Pakenham, *Hb. Cas.* :—Stowlangtoft, *Hb. Rk.* :—Walsham, *Hb. Dun.* :—Mildenhall, *Sir C.J.F.B.* :—West Stow, *E. Sk.* :—Rougham, *Hb. Ly.*

2. Bildeston ; Melford and Clare :—Hitcham, *Hb. Hens.* :—Rede, *Hb. Turn.* :—Cockfield, *W.J.* :—Kersey, *E.F.L.*

3. Mettingham.

4. Westleton :—Gt. Glemham, *E.N.B.*

5. Gt. Bealings, *Moor* :—Grundisburgh, *T.H.* :—Hemingstone, *T.B.* :—Felixstowe, *Purchas* :—Wherstead, *Harward* :—Ipswich, *Miller*.

Earliest record 1773. Sir J. Cullum.

5. *P. major*, Linn.*Greater Plantain.**Waybread.*

Bab. Man. 296.7. Hook. St. Fl. 288. H. & S. 68. Hist. Yarm..

Hist. Wher. Top. Bot. Suff. E. and W. Galp. 97.

Herbaceous perennial ; on wastes and waysides.

Common in all the districts.

June to August.

A paniced form gathered at Worlingham, Aug., 1887.

' Spike abortion, branching into a panicle, Bedingham, near Bungay,' *M.M.* In *Hb. Sk.* is a small form, *P. microstachys* gathered at Lowestoft.

Earliest record 1773. Sir J. Cullum.

Littorella, Linn.

1. *L. lacustris*, Linn.*Shoreweed.*

Bab. Man. 297. Hook. St. Fl. 290. H. & S. 69.

Hist. Bury. Top. Bot. Suff. E. and W.

Hist. Yarm.

Small herbaceous perennial ; on the margin of lakes, occasionally submerged, and without flowers. June, July..

1. Gt. Livermere ||; Ampton Lake || :—Tuddenham, *Hb. Sk.* :—Cavenham, *Sir T. G. Cullum* :—Mildenhall, *Sir C.J.F.B. & Hb. Ly.*

3. 'By the margin of Oulton Broad; by Lowestoft, plentifully, *Woodward* :—Belton Common, *Wigg* :—Salt waters at Benacre, near the sea, *Crabbe* :—Easton Broad, *Holmes*.

Earliest record 1773. Sir J. Cullum.

MONOCHLAMYDEÆ.

AMARANTHACEÆ.

Amaranthus, *Linn.*

[*A. Blitum*, *Linn.* *Amaranthus retroflexus*, *Linn.* *Blite*.
Bab. Man. 297. Hook. St. Fl. App. 534.

Herbaceous annual; a casual; in waste places. Aug.

1. Honington ||, a single plant near buildings :—Langham, *Hbb. Sk. & Ly.* :—Abbey Ruins, Bury, *C.B.*

2. Stoke-by-Nayland, *Rev. T. M. Torlesse* :—plentiful in farm-yard in the park at Tendring Hall ||.

1852. F. K. Eagle.]

(Two examples of the slender-branched Strawberry Blite, *Blitum virgatum*, *Linn.*, from waste ground, Bury, are in *Hb. Wils.* Likely strays from cultivation. Sep. 1831.)

CHENOPODIACEÆ.

Suæda, *Forsk.*

1. *S. fruticosa*, *Forsk.* *Shrubby Sea-Blite*.
Bab. Man. 299. Hook. St. Fl. 342. H. & S. 69. Top. Bot. Suff. E.

Shrubby herbaceous perennial; on sandy or shingly sea-shore; rare. July, August.

3. Southwold, *Trimmer & Ms. Davy*.

4. Walberswick, near the Ferry, *Woodward, Holmes, and E.N.B.*

5. Aldeburgh, *T.W.G.*

Earliest record 1801. Woodward.

2. *S. maritima*, *Dum.* *Herbaceous Sea-Blite*.
Bab. Man. 299. Hook. St. Fl. 342. H. & S. 69. Hist. Wher. Top. Bot. Suff. E.

Fleshy-leaved annual; on muddy sea-shores.

July to September.

3. Breydon Water; Covehithe :—Southwold, *Hb. Rk.* :
—Southtown, *D. Turner* :—Lowestoft, *E. Sk.*

4. Dunwich || ; Walberswick ||.

5. Stutton || ; Chelmondiston ; Felixstowe ; Stutton :
—Aldeburgh, *Hb. Cas.* :—Woodbridge, *Hb. Ly.* :—Orford
Beach, *E.N.B.* :—Brantham, *E. Sk.* :—Wherstead, *Haward.*

S. procumbens, Syme.

3. Southwold. 4. Walberswick. 5. Sutton.
Earliest record 1805. Dawson Turner.

Salsola, Linn.

1. *S. Kali*, Linn. *Saltwort.*
Bab. Man. 299. Hook. St. Fl. 343. H. & S. 69. Hist. Yarm.
Top. Bot. Suff. E.

Spinous annual ; on the sandy sea-beach. August.

3. Benacre and Covehithe :—Lowestoft, *Hbb. Cas. &*
Sk. :—Hopton Beach, *Phyt. 1862.*

4. Dunwich :—Minsmere, *E.N.B.*

5. Landguard Fort, *Hb. Mg.* :—Aldeburgh, *T.W.G.* :
—Bawdsey, *W.L.N.* :—Felixstowe, *Purchas* :—Wherstead,
Haward.

Earliest record 1838. Mrs. Casborne.

Chenopodium, Linn.

1. *C. Vulvaria*, Linn. *Stinking Goosefoot.*
Bab. Man. 299. Hook. St. Fl. 336. H. & S. 70. Top. Bot.
Suff. E. and W.

Annual ; in waste places ; usually near houses.

August, September.

3. Southwold || :—Lowestoft, *Hb. Cas.* :—Gorleston,
Wigg & Trimmer.

5. Aldeburgh, *Ms. Davy* :—Woodbridge, *Crabbe* :—
Slaughden, *E.N.B.* :—Ipswich and Landguard Fort, *Sk.ms.* :
—Felixstowe, *Haward.*

Earliest notice 1800. Sir J. E. Smith.

2. *C. polyspermum*, Linn. *Many-seeded Goosefoot.*
Bab. Man. 300. Hook. St. Fl. 336. H. & S. 70. Hist. Wher.
Top. Bot. Suff. E. and W. Galp. 97.

Annual weed ; in moist waste places. Aug., Sep.

1. Ixworth Thorpe :—Barton, *Hb. Blk.* :—Pakenham,
Hb. Cas.

2. Cockfield ||, *C.B.* :—Hitcham, *Hb. Hens.* :—Lavenham, *Dr. White* :—Naughton, *H. & S.*

3. Bungay, *Stock.*

4. Gt. Glemham, *E.N.B.*

5. Bergholt, *Dr. White* :—Wherstead, *Haward* :—Bixley Decoy, *I. S. Soc.*

C. acutifolium, Sm., Regarded by some of our best authorities as not distinct from the type.

1. Ashfield, *Hb. Rk.* :—Barton, *Sir C.J.F.B.*

2. Potter Lane, *C.B.* :—Hitcham, *Prof. Hens.*

4. Gt. Glemham, *E.N.B.* :—Brockford, *Hb. Peck.*

5. Aldeburgh, *Hb. Cas.*

Earliest record 1774. Sir J. Cullum.

3. *C. urbicum*, Linn.

Upright Goosefoot.

Bab. Man. 300. Hook. St. Fl. 337. H. & S. 70. Hist. Yarm.

Top. Bot. Suff. E. and W. Galp. 127.

Annual weed ; on cultivated and waste ground. Aug.

1. Bury, *Hb. Wils.* :—Stowlangtoft, *Hb. Rk.*

3. Corton, *Sir J. E. Smith* :—Bungay, *H. & S.*

4. Eye || :—Palgrave, *Collins.*

5. Bergholt, *H. & S.* :—Wherstead, *Haward.*

b. *C. intermedium* M. & K.

Bab. Man. 300. Hook. St. Fl. 337.

1. Barton ||, *Hb. Blk.* :—Bury, *Hb. Wils.*, 1831.

Earliest notice 1828. Sir J. E. Smith.

4. *C. album*, Linn.

Fat Hen.

Bab. Man. 300. Hook. St. Fl. 336. H. & S. 70. Hist. Wher.

Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 97.

Annual weed ; on cultivated and waste ground.

Common in all the districts.

July, August.

b. *C. viride*, Linn.

Bab. Man. 300. Hook. St. Fl. 337.

1. Honington ; Haughley ; Kentford :—Stowlangtoft, *Hb. Rk.*

2. Nayland || ; Melford. 3. Kessingland ; Benacre.

4. Eye. 5. Stutton ; Claydon ; Bawdsey.

c. *C. paganum*, Reichb.

Bab. Man. 300. Hook. St. Fl. 337.

1. Bury ; Hawstead, *Hb. Wils.*, 1831.

Earliest record 1773. Sir J. Cullum.

5. *C. ficifolium*, *Sm.* *Fig-leaved Goosefoot.*
 Bab. Man. 300. Hook. St. Fl. 337. H. & S. 70. Hist. Yarm.
 Top. Bot. Suff. E. and W.
 Annual weed ; on cultivated and waste ground ; rare.
 August, September.
 1. Bury & Lakenheath, *H. & S.* :—Barton, *Sir C.J.F.B.*
 3. Waste places by the Yare, *Paget.*
 5. Woodbridge, *Hb. Ly.*
 Earliest notice 1834. *Paget.*
6. *C. murale*, *Linn.* *Sowbane.*
 Bab. Man. 300. Hook. St. Fl. 337, 8. H. & S. 70. Hist. Yarm.
 Top. Bot. Suff. E. Galp. 97.
 Annual weed ; under walls and in waste places. Aug.
 3. Corton Cliff, *Hb. Sk.* :—Bungay, *Stock* :—St. Margarets (E.A.H.), *Galp.*
 5. Ipswich ; Slaughden Vale and Orford, *E.N.B.* :—
 Aldeburgh and Felixstowe, *H. & S.*
 Earliest notice 1835. *D. Stock.*
7. *C. hybridum*, *Linn.* *Maple-leaved Goosefoot.*
 Bab. Man. 300. Hook. St. Fl. 337. H. & S. 70. Hist. Yarm.
 Hist. Bury. Top. Bot. Suff. E. and W. Galp. 97.
 Annual weed ; in waste places ; rare. August.
 1. Bury, *Hbb. Cas. & Sk.* :—Mildenhall, *Sir C.J.F.B.*
 2. Nayland ||, *Gray.* :—Naughton, *H. & S.*
 3. Southtown, *Wigg* :—St. Margarets, *Holmes.*
 4. Sibton Abbey, *Davy.*
 5. Between Ipswich and Dedham, *Sir J. E. Smith* :—
 Ipswich, *Ips. Fl.* :—Orford.
 Earliest record 1804. *Sir T. G. Cullum.*
8. *C. rubrum*, *Linn.* *Red Goosefoot.*
 Bab. Man. 301. Hook. St. Fl. 338. H. & S. 70. Hist. Yarm.
 Top. Bot. Suff. E. and W. Galp. 128.
 Annual weed ; in waste places. August, September.
 1. West Stow || ; Troston ; Ixworth Thorpe :—Barton,
Hb. Blk. :—Bury, *Hb. Wils.* :—Rougham, *Hb. Sk.* :—Fornham,
H. & S. :—Mildenhall, *Sir C.J.F.B.*
 2. Wickhambrook :—Hitcham, *Hb. Hens.* :—Little
 Thurlow, *F.*
 3. Worlingham :—Lowestoft, *Dr. Trimen* :—Southtown :—
 Bungay, *H. & S.* :—Oulton, *McAub.* :—Gorleston,
J. Priest in Hb. Geld.
 5. Aldeburgh ; Ipswich ; Stutton.

C. pseudo-botryodes, C. H. Watson.

Bab. Man. 301.

1. Lakenheath ||.

Earliest record 1774. Sir J. Cullum.

9. *C. botryodes*, Sm.

Bunchy Goosefoot.

Bab. Man. 301. Hook. St. Fl. 338. Top. Bot. Suff. E. Eng. Fl.

Annual weed ; on sandy places near the coast. Sep.

3. Lowestoft, *Sir J. E. Smith* :—plentiful on the ditch banks of Southtown Marshes, *Mr. G. Fitt to H. G. Glasspoole.*

Earliest record 1828. Sir J. E. Smith.

†11. *C. Bonus Henricus*, Linn. *Good King Henry.*
Allgood.

Bab. Man. 301. Hook. St. Fl. 338. H. & S. 70. Hist. Wher.

Hist. Yarm. Top. Bot. Suff. E. and W.

Herbaceous perennial ; by walls and waysides.

Frequent in all the districts.

May to August.

Earliest record 1773. Sir J. Cullum.

Beta, Linn.

1. *B. maritima*, Linn.

Sea-Beet.

Bab. Man. 301. Hook. St. Fl. 339. H. & S. 70. Hist. Yarm.

Top. Bot. Suff. E. Hist. Wher.

Herbaceous perennial ; on the sea-coast. July to Sep.

3. Burgh Castle ; Covehithe and Southwold :—Lowestoft, *Dr. Trimen* :—Southtown, *Hb. Geld.*

4. Walberswick :—Dunwich, *W.J.*

5. Stutton || ; Catawade ; Chelmondiston ; Wherstead ; Ipswich ; Walton :—Felixstowe, *C.B.* :—Orford, *E.N.B.* :—Aldeburgh, *Sir C.J.F.B.* :—Brantham Marshes, *Sk. ms.*

Earliest notice 1834. Paget.

Salicornia, Linn.

1. *S. herbacea*, Linn.

Common Glasswort.

Bab. Man. 302. Hook. St. Fl. 341. H. & S. 69. Hist. Yarm.

Top. Bot. Suff. E.

Annual ; on muddy shores and banks. Aug., Sep.

3. Breydon Water ; Covehithe :—Southtown, *D. Turner* :—Lowestoft, *E. Sk.*

4. Dunwich || ; Walberswick.

5. Walton ||; Stutton ||; Chelmondiston :—Aldeburgh, *Hb. F.* :—Felixstowe. *Hb. Cas.* :—Catawade, *E.F.L.* :—Sutton, *F. Spalding* :—Orford, *Sk. ms.* :—Wherstead, *Haward*.

b. S. procumbens, Sm.

Bab. Man. 302. Hook. St. Fl. 341. Hist. Yarm.

3. Breydon Water ||; Covehithe. 4. Thorpe.

5. Chelmondiston ||; Aldeburgh ||.

Earliest record 1805. Dawson Turner.

2. *S. radicans*, Sm. *Rooting Glasswort.*

Bab. Man. 302. Hook. St. Fl. 342. H. & S. 69. Top. Bot. Suff. E.

Herbaceous perennial; on muddy sea-shores.

August, September.

5. Stutton ||; Walton; Landguard Fort :—Felixstowe, *Hb. Cas.* :—Orford, H. & S.

Earliest notice 1830. Mrs. Casborne.

Atriplex, Linn.

1. *A. littoralis*, Linn. *Shore Orache.*

Bab. Man. 302. Hook. St. Fl. 340. H. & S. 71? Hist. Yarm. Top. Bot. Suff. E. Hist. Wher.

Annual weed; on the sea-shore. July to September.

3. Covehithe and Kessingland :—Lowestoft, *Hb. Sk.* :—Breydon Water, *C.B.*

5. Stutton ||; Catawade; Ipswich; Felixstowe; Sutton :—Woodbridge, *Hb. Cas.* :—Aldeburgh, *E.N.B.* :—Wherstead, *Haward*.

b. A. marina, Linn.

Bab. Man. 302. Hook. St. Fl. 340.

3. Breydon Water; Oulton Broad; Kessingland.

5. Catawade ||; Felixstowe ||.

Earliest notice 1805? F. K. Eagle.

2. *A. angustifolia*, Sm. *A. patula*, Linn. in part. *Narrow-leaved Orache.*

Bab. Man. 302, 3. Hook. St. Fl. 340. H. & S. 71? Hist. Yarm. Top. Bot. Suff. E. & W. Hist. Wher. Galp. 98.

Annual weed; in cultivated ground. July to Sep.

1. Honington ||; Ixworth; Wetherden; Haughley;

Barton Mills; Lakenheath:—Pakenham, *Hb. Cas.*:—Barton and Mildenhall, *Sir C.J.F.B.*:—Coney Weston, *E.F.L.*

2. Nayland and Melford:—Hitcham, *Hb. Hens.*:—Kersey, *E.F.L.*

3. Lound; Kessingland; Benacre; Southwold:—St. Margarets, *Galp.*

4. Botesdale.

5. Aldeburgh; Stutton:—Felixstowe, *Purchas*:—Wherstead, *Haward*:—Woodbridge, *Hb. Ly.*

Earliest notice 1834. Paget.

3. *A. erecta*, *Huds.* *A. patula*, Linn. in part.
Upright Orache.

Bab. Man. 303. Hook. St. Fl. 339. H. & S. 71?

Annual weed; in corn-fields and cultivated ground.

July to October.

1. Fakenham; Honington; Wetherden; Barton Mills; Mildenhall.

2. Hitcham, *Hb. Hens.*

3. Bungay; Lowestoft; Kessingland; Benacre; Southwold ||.

4. Eye ||. 5. Stutton.

Earliest notice 1850. Prof. Henslow.

4. *A. deltoidea*, *Bab.* *Deltoid Orache.*

Bab. Man. 303. Hook. St. Fl. 340. Galp. 98.

Annual weed; on cultivated and waste ground.

June to October.

1. Fakenham ||; Thetford Warren; Barton Mills; Mildenhall; Lakenheath:—Ashfield, *Hb. Rk.*

3. Bungay; Burgh Castle and Benacre:—Pakefield, *Hb. Cas.*:—Homersfield Allotments, *Galp.*

4. Eye.

5. Stutton ||; Sutton:—Wherstead, *Haward.*

A. triangularis, Willd.

Bab. Man. 303.

1. Barton Mills; Lakenheath:—Ashfield, *Hb. Rk.*

3. Burgh Castle.

5. Stutton and Sutton.

Earliest notice 1830? Mrs. Casborne.

5. *A. hastata*, Linn. *Hastate Orache.*

Bab. Man. 303. Hook. St. Fl. 340. H. & S. 71. Hist. Yarm.

Top. Bot. Suff. E. and W. Galp. 98.

Annual weed ; on cultivated and waste ground.

June to October.

1. Fakenham ; Ixworth Thorpe :—Felsham, *Hb. Sk.* :—Coney Weston, *E.F.L.* :—Barton Mills.
 2. Cockfield, *W.J.* :—Hitcham, *Prof. Hens.*
 3. Burgh Castle || ; Kessingland ; Southwold ; Beccles.
 4. Dunwich :—near Weybread, *Galp.*
 5. Felixstowe :—Catawade, *E.F.L.*
- Earliest notice 1834. Paget.

6. *A. Babingtonii*, Woods. *Frosted Orache.*

Bab. Man. 303. Hook. St. Fl. 340. H. & S. 71. Top. Bot. Suff. E.

Annual weed ; on the sea-shore. July to September.

3. Lowestoft ; Breydon Water ; Covehithe :—Gorleston, *W.J.* :—Easton Bavent, *Hb. Ly.*
4. Dunwich ; Sizewell.
5. Stutton || ; Catawade ; Ipswich ; Sutton :—Bawdsey, *W.L.N.* :—Orwell, *Ips. Fl.* :—Aldeburgh, *Sk. ms.* :—Felixstowe, *Purchas.*

Earliest notice 1850 ? W. L. Notcutt.

7. *A. farinosa*, Dum. *A. laciniata*, Linn.

A. arenaria, Woods. *Mealy Orache.*

Bab. Man. 303,4. Hook. St. Fl. 340. Top. Bot. Suff. E.

Annual weed ; on sandy sea-shores. July to Sep.

3. Lowestoft, *Dr. Trimen* :—Pakefield, *Stone* :—between Lowestoft and Corton, *A.B. in Hb. Geld.*
 4. Dunwich ||, *W.J.* :—Thorpe, *Crabbe.*
 5. Felixstowe, *Hb. Mg.* :—Landguard Fort, *Sir J. E. Smith* :—Aldeburgh, *Sir C.J.F.B.*
- Earliest record 1800. Sir J. E. Smith.

Obione, *Gært.*

1. *O. pedunculata*, Moq. *Atriplex pedunculata*, Linn.
Stalked Sea Purslane.

Bab. Man. 304. Hook. St. Fl. 341. H. & S. 71. Top. Bot. Suff. E.

Annual weed ; in muddy salt marshes. Aug., Sep.

3. 'On banks by the highway-side between Yarmouth and Gorleston, Sep 3, 1764, Mr. Bryant. The banks are since destroyed, and Mr. Bryant could not find it 1766,'

Dill. Ray in Hort. Ox. :—Breydon Water, *Hb. Sk.* :—‘Aug. 30, 1857. Shewn to me by Mr. Dawson Turner in a salt marsh on the Suffolk side of the river at Yarmouth, a little way from the bridge to the right of the road going to Gorleston ||. It grows there in very considerable abundance,’ *Sir C.J.F.B. Ms.*

4. Walberswick, *Holmes.*

5. Shingle Street, *Holmes* :—Aldeburgh, *T.W.G.*

Earliest notice 1764. *Rev. H. Bryant.*

2. *O. portulacoides*, *Moq.* *Atriplex portulacoides*, *Linn.*
Common Sea Purslane.

Bab. Man. 304. *Hook. St. Fl.* 341. *H. & S.* 70. *Hist. Yarm.*

Top. Bot. Suff. E. *Hist. Wher.*

Shrubby perennial ; frequent on muddy sea-coasts.

August to October.

3. Southwold, *Hb. Rk.* :—Breydon Marshes, *Paget* :—*Lowestoft, Sk. ms.*

4. Walberswick :—Dunwich, *W.J.*

5. Aldeburgh || ; Felixstowe ; Stutton || ; Walton ; Chelmondiston :—Catawade, *E.F.L.* :—Wherstead, *Haward* :—Woodbridge, *Hb. Ly.*

Earliest notice 1834. *Paget.*

POLYGONACEÆ.

Rumex, *Linn.*

2. *R. maritimus*, *Linn.* *Golden Dock.*

Bab. Man. 305. *Hook. St. Fl.* 348. *H. & S.* 71. *Hist. Bury.*

Top. Bot. Suff. E. *Galp.* 128.

Herbaceous perennial or biennial ; in marshes usually near the sea.

July, August.

1. Broadmere, Troston :—Mildenhall ; Eriswell, *Sir C.J.F.B.* :—Fornham Heath, near Hengrave Park, *Sir T. G. Cullum.*

2. Brettenham Park ||, *C.B.*

3. By ditches on Bradwell Common, *Wigg* :—sides of Kessingland Dam ||, *D. Turner* :—Bungay, *Stock* :—near Easton Broad and Potter’s Bridge, Southwold, *Holmes* :—Somerleyton ; Lowestoft, *Hb. Sk.* :—Beccles :—Oulton, *McAub.*

4. Dunwich, *Davy.*

5. Aldeburgh, *Hele.*

Earliest record 1804. *Sir T. G. Cullum.*

2. *R. palustris*, Sm. Marsh Dock.

Bab. Man. 305. Hook. St. Fl. 349. Hist. Bury. Top. Bot. Suff. W. Galp. 128.

Herbaceous perennial; in marshes; rare.

July to September.

1. Broadmere, Troston :—Mildenhall, *Hb. Blk.* :—Fornham Heath, near Hengrave Park, *Sir T. G. Cullum* :—

3. St. Olave's Bridge ||; Belton ||; Beccles :—Bungay, *Stock* :—'Marshes at Cove and Barnby,' *Holmes* :—Oulton, *McAub.*

Earliest notice 1804. *Sir T. G. Cullum.*

3. *R. conglomeratus*, Murr. Clustered Dock.

Bab. Man. 305. Hook. St. Fl. 349. H. & S. 71. Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 99.

Herbaceous perennial; in wet places. June to Aug.

Frequent in all the districts.

Earliest record 1773? likely for *R. acutus*. *Sir J. Cullum.*

1855, *Prof. Hens. in Hb. Hens.*

5. *R. sanguineus*, Linn. Red-veined Dock.

Bab. Man. 305. Hook. St. Fl. 349. H. & S. 71. Hist. Fram. Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 99.

Herbaceous perennial; in woods and lanes.

June to August.

1. Hinderclay Wood ||; Fakenham Wood :—Barton, *Sir C.J.F.B.* :—Bury, *E. Sk.*

2. Melford; Nayland; Stoke :—Hitcham, *Prof. Hens.*

3. Lowestoft, *Sir J. E. Smith* :—Flixton, *H.B.C.*

4. Framlingham. *Crabbe* :—Mellis.

5. Felixstowe, *Purchas.*

b. *R. viridis*, Sibth.

Bab. Man. 305. Hook. St. Fl. 349. H. & S. 71. Hist. Yarm.

1. Sapiston Grove ||; Hinderclay Wood; Ampton :—Bury, *Hb. Wils.* :—Pakenham, *Hb. Cas.*

2. Hitcham, *Hb. Sk.* :—Kersey, *F.F.L.*

3. Lound, *Paget* :—Lowestoft, *Sir J. E. Smith* :—Flixton Park, *Galp.*

4. Botesdale; Mellis; Sibton :—Gt. Glemham, *E.N.B.*

5. Stutton.

Earliest record 1773. *Sir J. Cullum.*

6. *R. pulcher*, Linn. *Fiddle Dock.*

Bab. Man. 305, 6. Hook. St. Fl. 348. H. & S. 71. Hist. Yarm.
 Top. Bot. Suff. E. and W. Galp. 99.

Biennial weed; by waysides and waste places.

July to September.

1. Honington ||; Troston; Barton Mills:—Bury,
Hbb. Sk. & Wils.:—Barton and Mildenhall, *Sir C.J.F.B.*:—
 Tuddenham, *E. Sk.*

2. Hitcham, *Hb. Hens.*:—Cockfield, *W.J.*:—Wick-
 hambrook; Nayland.

3. Burgh Castle; Kessingland and Covehithe:—Bun-
 gay, *Stock*:—Flixton, *H.B.C.*:—Lowestoft, *E. Sk.*:—South-
 wold, *J.H.G.*

4. Benhall Green and Gt. Glemham, *E.N.B.*:—Wal-
 berswick; Sizewell.

5. Felixstowe, *C.B.*

Earliest notice 1831. Herb. Wilson.

7. *R. obtusifolius*, Linn. *Broad Dock.*

Bab. Man. 306. Hook. St. Fl. 348. H. & S. 71. Hist. Fram.
 Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 99.

Herbaceous perennial; fields and waste places.

Common in all the districts. July to September.

Earliest record 1798. Rev. G. Crabbe.

8. *R. acutus*, Linn. *Sharp Dock.*

Bab. Man. 306. Hook. St. Fl. 348. Britt.

Herbaceous perennial; in marshy places; rare.

June to September.

1. Tavern Water, Bury, Aug. 1831, *Hb. Wils.*:—Mil-
 denhall, *Sir C.J.F.B.* This is likely the plant referred to by
Sir J. Cullum, June 10, 1773, as the date is too early to
 designate *R. acutus*, Sm., *R. conglomeratus*, Murr.

9. *R. crispus*, Linn. *Curled Dock.*

Bab. Man. 306. Hook. St. Fl. 349. H. & S. 71. Hist. Fram.
 Hist. Yarm. Top. Bot. Suff. E. and W.

Herbaceous perennial; in fields and waysides.

Common in all the districts. June to August.

R. trigranulatus, Syme, *R. subcordatus*, Warren, and a
 third form having the enlarged petal without tubercles, are
 found on the beach between Benacre and Covehithe ||.

Earliest record 1773. Sir J. Cullum.

12. *R. Hydrolapathum*, *Huds.* *Great Water Dock.*

Bab. Man. 307. Hook. St. Fl. 350. H. & S. 71. Hist. Fram.
Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 99.

Large herbaceous perennial ; in ditches and river-sides.

July, August.

1. Honington || ; Euston ; Knettishall ; Brandon ;
Lakenheath ; Barton Mills :—Fornham, *Hb. Blk.* :—Paken-
ham, *Hb. Cas.* :—Stowlangtoft, *Hb. Rk.* :—Tuddenham, *Hb.*
Sk. :—Mildenhall, *Sir C.J.F.B.* :—Bury and Cavenham
Severals, *Sk. ms.*

2. Clare ; Nayland :—Melford, *C.B.*

3. St. Olaves ; Kessingland ; Benacre ; Bungay ;
Beccles :—Breydon Water, *Phyt. 1862* :—Belton, *E. Sk.* :—
Oulton Broad, *C.B.*

4. Redgrave ; Wortham ; Eye ; Dunwich :—Farn-
ham and Gt. Glemham, *E.N.B.* :—Framlingham, *Crabbe &*
E.N.B.

5. Claydon :—Hemingstone, *T.B.*

Earliest notice 1798. Rev. G. Crabbe.

15. *R. Acetosa*, *Linn.* *Sorrel.*

Bab. Man. 307. Hook. St. Fl. 350, 1. H. & S. 72. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. and W. Galp. 99.

Herbaceous perennial ; in meadows and pastures.

Common in all the districts.

May, June.

Earliest record 1773. Sir J. Cullum.

16. *R. Acetosella*, *Linn.* *Sheep Sorrel.*

Bab. Man. 307. Hook. St. Fl. 351. H. & S. 72. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. and W. Galp. 99.

Herbaceous perennial ; on dry sandy heaths and com-
mons.

May to July.

Var. *R. angustifolius*, Koch. *Taschenluch*, D. & S. Flora.

1. Thetford Warren || ; Brandon ; Barnham, Troston,
and Knettishall Heaths.

Earliest notice 1773. Sir J. Cullum.

Polygonum, *Linn.*

1. *P. Bistorta*, *Linn.* *Snakeweed.*

Bab. Man. 308. Hook. St. Fl. 344. H. & S. 72. Hist. Bury.
Top. Bot. Suff. E. and W. Galp. 98.

Herbaceous perennial ; in moist meadows. June, Oct.

1. Bury, *Hb. Sk.* :—Norton, *Hb. Rk.* :—near Wetherden Church, *Hb. F.* :—Tostock ||, *F.* :—Woolpit and Lackford, *E. Sk.*

2. Hitcham, *Hb. Hens.* :—Sudbury, *Dr. White* :—Mel-ford, *J.F.W.* :—Hadleigh, across the Brett from Rectory, *F. Spalding.*

3. Shipmeadow, *Woodward* :—near Olland House, Bungay, *Stock* :—Flixton, towards St. Margarets, *Holmes* :—small plantation in Worlingham Park, *H. & S.*

4. Rendham and Gt. Glemham, *Crabbe* :—Framlingham, *E.N.B. & Ms. Davy* :—Mendham and Thwaite, *Holmes* :—Brockford, *Hb. Peck.*

5. Stonham, *Hb. Cas.* :—near the Gipping, Ipswich. *Miller.*

Earliest record 1775. Sir J. Cullum.

3. *P. amphibium*, *Linn.* *Amphibious Polygonum.*

Bab. Man. 308. Hook. St. Fl. 344. H. & S. 72. Hist. Fram.
Hist. Yarm. Top. Bot. Suff. E. and W. Hist. Wher. Galp. 98.

Herbaceous perennial; in pools, or on their banks when it is *P. terrestre*, Leers; and, instead of long petioled floating leaves, has them subsessile and ærial. July to Sep.

Both frequent in all the districts.

Earliest notice 1798. Rev. G. Crabbe.

4. *P. lapathifolium*, *Linn.* *Pale Persicaria.*

Bab. Man. 308. Hook. St. Fl. 344. H. & S. 72. Hist. Yarm.
Top. Bot. Suff. E. and W. Galp. 98.

Annual weed; in ploughed fields and waste places.

Frequent in all the districts. July to September.

Earliest notice 1832. Steggall.

5. *P. maculatum*, *Dyer.* *Spotted Persicaria.*

Bab. Man. 309. Hook. St. Fl. 345.

Annual weed; on damp gravelly places. July to Sep.

1. Troston ||; Honington. 2. Little Bradley, *Hb. F.*

Earliest notice 1840. Mrs. French.

6. *P. Persicaria*, *Linn.* *Common Persicaria.*

Bab. Man. 309. Hook. St. Fl. 345. H. & S. 72. Hist. Fram.
Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 98.

Annual weed; in cultivated fields and waste places.

June to October.

Common in all the districts.

P. biforme, Wahl., a doubtful variety.

Bab. Man. 309.

1. Honington.

Earliest record 1773. Sir J. Cullum.

7. *P. mite*, Schrank.

Mild Persicaria.

Bab. Man. 309. Hook. St. Fl. 345.

Annual weed; in wet places. August, September.

1. Honington; Fakenham; Troston:—Bury, *Hb. Wils.*

3. Lound || :—Beccles.

Earliest notice 1831. Herb. Wilson.

8. *P. Hydropiper*, Linn.

Water Pepper.

Bab. Man. 309. Hook. St. Fl. 345. H. & S. 72. Hist. Fram.

Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 98.

Annual weed; by shallow streams and ditches.

Frequent in all the districts. August, September.

Earliest notice 1798. Rev. G. Crabbe.

9. *P. minus*, Huds.

Lesser Persicaria.

Bab. Man. 309, 10. Hook. St. Fl. 346. H. & S. 72. Top. Bot.

Suff. E. and W? Galp. 98.

Procumbent annual weed; edge of pools or streams.

August, September.

1. Edge of pool, Fakenham Wood.

3. Bungay, H. & S.:—Beccles; Worlingham; Carlton

Colville:—St. Margarets (E.A.H.), Galp.

Earliest record 1860. Henslow and Skepper.

10. *P. aviculare*, Linn.

Knot Grass.

Bab. Man. 310. Hook. St. Fl. 346. H. & S. 72. Hist. Yarm.

Hist. Wher. Top. Bot. Suff. E. and W. Galp. 98.

Annual weed, usually procumbent; in fields and wastes.

Common in all the districts. May to September.

a. *P. agrestinum*, Jord.

1. Honington ||.

2. Nayland.

b. *P. vulgatum*, Syme.

1. Honington.

c. *P. arenastrum*, Bor.

1. Honington ||.

d. P. microspermum, Jord.

1. Honington ||. 2. Nayland ; Stoke-by-Nayland.

e. P. rurivagum, Jord.

1. Honington ; Livermere ||.

2. Stoke-by-Clare ; Nayland.

f. P. littorale, Link.

5. Sutton ||.

Earliest record 1773. Sir J. Cullum.

11. *P. Raii*, Bab. *P. Roberti*, Lois. *Ray's Knotgrass.*

Bab. Man. 310. Hook. St. Fl.

Procumbent annual ? on the sea-shore. Aug., Sep.

5. Landguard Fort ||. 1888.

13. *P. Convolvulus*, Linn. *Black Bindweed.*

Bab. Man. 310. Hook. St. Fl. 347. H. & S. 72. Hist. Yarm.

Top. Bot. Suff. E. and W. Hist. Wher. Galp. 98.

Annual weed ; in ploughed fields and wastes.

Frequent in all the districts. July to September.

b. P. pseudo-dumetorum, H. C. Wats.

Bab. Man. 310. Hook. St. Fl. 347.

1. Honington ||.

Earliest record 1773. Sir J. Cullum.

Fagopyrum, Gært.

[*F. esculentum*, Mærch. *Buckwheat.*

Bab. Man. 311. Hook. St. Fl. App. 534. Hist. Yarm.

Annual ; a frequent escape from cultivation.

1. Troston || ; Honington ; Fakenham ; Livermere :
—Bury, *Hb. Sk.* :—Corn-field, Nowton, *Hb. Wils.* :—Wal-
sham, *Hb. Dm.* :—Fornham, *Hb. Ly.*

5. Gt. Bealings, Moor.

Earliest record 1773. Sir J. Cullum.]

ELÆAGNACEÆ.

Hippophaë, Linn.

1. *H. rhamnoides*, Linn.

Sea Buckthorn.

Bab. Man. 311. Hook. St. Fl. 354. H. & S. 73. Top. Bot. Suff. E.
Sea-side shrub ; on cliffs or sands. May.

4. Thorpe, near Aldeburgh, *Hb. Blk. & Sir C.J.F.B.*

5. In great plenty in a sandy lane between Shottisham Church and Sutton Heath, *Holmes.*

Earliest notice 1773. Sir J. Cullum.

THYMELACEÆ.

Daphne, *Linn.*

1. *D. Mezereum*, *Linn.* *Mezereon.*

Bab. Man. 312. Hook. St. Fl. 353. H. & S. 73. Top. Bot.
Suff. W. Galp. 99.

Small shrub ; in woods ; rare. March.

1. Stowlangtoft, cultivated, *Hb. Rk.* :—Honington ||, cultivated :—Wood, Lit. Welnetham, probably sown by birds, *Mrs. Carss* :—Hawstead, *E. S. Marshall.*

3. Bungay, doubtful if wild, *Stock.*

4. 'At Laxfield, in great abundance in a neglected pasture by the side of the road to Stirrup Street, and by the side of a pool there. It does not appear that there was a garden or house near the spot, so that its growth most probably is not owing to art. Mr. Crowe.' *Dill. Ray in Hort. Ox.* :—found by *Mr. Woodward* at Laxfield, *M.M.* Apparently extinct at Laxfield in 1805.

5. 'Recorded from Bergholt,' *H. & S.?*

Earliest notice 1777. Crowe.

2. *D. Laureola*, *Linn.* *Spurge Laurel.*

Bab. Man. 312. Hook. St. Fl. 353. H. & S. 73. Hist. Fram.
Top. Bot. Suff. E. and W. Galp. 98.

Small evergreen shrub ; in woods and thickets.

February to April.

1. Stanton, *Hbb. Cas. & Dun.* :—Woolpit, *Hb. Wils.* :—Nacton Hall, Barton, *Sir C.J.F.B.* :—Sicklesmere, *E. Sk.* :—Bradfield St. George, *Hb. Turn.*

2. Cockfield ||, *C.B.* :—Hitcham, *Hb. Hens.* :—Hartest :—Acton Wood, *J.F.W.* :—Sudbury, *Fulcher* :—Holbecks, Hadleigh and near Aldham Hall, *F. Spalding* :—Thrifty Wood, Lawshall ; Thorpe ; Glemsford, *Sk. ms.*

3. Fritton and Bradwell :—near St. Cross Schoolroom,

Flixton, *Galp*:—Reydon, *Hist. Southwold*.

4. Sibton:—between Mellis and Burgate, *C. J. Ashfield*:
—Benhall and Gt. Glemham, *E. N. B.*:—Easton, *Crabbe*:—
Brockford, *Hb. Peck*:—Laxfield, *Ms. Davy*.

5. Stutton:—Grundisburgh and Gt. Bealings, *Moor*:—
Hemingstone, *T. B.*:—Coddensham, *F. Fox*:—Ashbocking,
F. C. S.:—Birkfield, Ipswich and field and road to Akenham
Dr. Taylor:—Bergholt, *H. & S.*:—Bramford & Blakenham
I. S. Soc.

Earliest record 1773. Sir J. Cullum.

SANTALACEÆ.

Thesium, *Linn.*

1. *T. humifusum*, *DC.* *Bastard Toad-flax.*

Bab. Man. 312. Hook. St. Fl. 355. H. & S. 73. Hist. Bury.
Top. Bot. Suff. W.

Woody parasitical perennial; in chalky soil.

June, July.

1. Risby Heath ||, *Hb. Sk.*:—Newmarket Heath, *Dill.*
& *Hb. Blk.*:—Bury, *Sir J. E. Smith*:—Brandon, *E. Sk.*
Sometimes infested with *Æcidium Thesii*, *E. N. B.*

Earliest record 1724. Dillenius.

ARISTOLOCHIACEÆ.

Aristolochia, *Linn.*

[1. *A. Clematitis*, *Linn.* *Common Birthwort.*

Bab. Man. 313. Hook. St. Fl. 352. H. & S. 73. Galp. 128.
Herbaceous perennial; near old ruins. July, Aug.

1. Livermere ||; Abbey Grounds, Bury, *Hb. Sk.*:—
Hessett, *Hb. Wils.* & *Dr. Bromfield*:—Rougham, *Hb. Dun.*

4. At Stuston, *Woodward*, and recently *Dr. Amyot*.

Earliest notice 1796. Woodward.]

Asarum, *Linn.*

1. *A. europæum*, *Linn.* *Asarabacca.*

Bab. Man. 313. Hook. St. Fl. 352.

Evergreen herbaceous perennial; in woods. May.

1. Rougham, *Hb. Dun.* Beside the dried specimen, a drawing of a plant from Rougham has been seen in a collection of wild flowers from the pencil of *Mrs. Gibson*, of Lound.

4. Wortham, *Collins* ||.

Earliest notice 1847. *Mrs. Dunlap.*

EUPHORBIACEÆ.

Euphorbia, *Linn.*

2. *E. Helioscopia*, *Linn.* *Sun Spurge.*

Bab. Man. 314, 15. Hook. St. Fl. 356. H. & S. 74. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. and W. Galp. 100.

Annual weed ; in cultivated and waste ground.

Frequent in all the districts. June to September.

Earliest record 1773. *Sir J. Cullum.*

4. *E. platyphyllos*, *Linn.* *Broad-leaved Spurge.*

Bab. Man. 315. Hook. St. Fl. 357. H. & S. 74. 'Suffolk'
Br. Fl.

Annual weed ; in fields.

June to August.

1. Cutthroat Lane, Hardwick, *Hb. Wils.* 1831.

8. *E. amygdaloides*, *Linn.* *Wood Spurge.*

Bab. Man. 306. Hook. St. Fl. 357. H. & S. 74. Hist. Fram.
Hist. Wher. Top. Bot. Suff. E. and W. Galp. 100. Ger. em.

Herbaceous perennial ; in woods. March, April.

1. Bury, *Hb. Wils.* :—Pakenham, *Hb. Cas.* :—Haughley :
—Barton, *Sir C.J.F.B.* :—Onehouse Wood, *Mrs. Terry* :—
Dalham, *Rev. F. Tearle* :—Hardwick, *Hb. Ly.* :—Bradfield,
H. & S.

2. Wiston || ; Polstead ; Nayland ; Acton ; Melford :
—Cockfield and Gt. Waldingfield, *C.B.* :—Hitcham, *Prof.*
Hens. :—Gt. Bradley, *Hb. F.* :—Rede, *Hb. Turn.* :—Ched-
burgh, *Miss Bell* :—Kersey, *Gray* :—Hadleigh, *F. Spalding.*

3. Bungay, *Stock.*

4. Gt. Glemham, *E.N.B.* :—Bruisyard Wood, *Hol-*
land :—Framlingham, *Hb. Dun.* :—Hoxne, *Ms. Davy.*

5. Stutton :—Grundisburgh, *T.H.* :—Hemingstone,
T.B. :—Ashbocking, *F.C.S.* :—Blunt's Wood, Woodbridge,
F. Spalding :—Wherstead, *Haward* :—Barking, *Hb. Peck* :—
Pettistree, *Ms. Davy.*

Earliest record 1562. *Dr. W. Turner.*

[*E. Cyparissias*, Linn.*Welcome to our house.*

Bab. Man. 316. Hook. St. Fl. 359.

Herbaceous perennial ; a rare stray. June, July.

1. Tuddenham, 'at least a mile away from gardens,'
W. J. Cross, 1888.]10. *E. Paralias*, Linn.*Sea Spurge.*Bab. Man. 316. Hook. St. Fl. 358. H. & S. 74. Top. Bot.
Suff. E.

Herbaceous perennial ; on sea-sands. August, Sep.

3. Seashore, Southwold, *Ms. Davy*.4. Dunwich || and Walberswick :—Minsmere Level,
E.N.B. :—Thorpe, *H. & S.*5. Landguard Fort, *Hb. Blk.* :—Ramsholt, *Sir J. Cullum* :—Felixstowe, *H.M.S.* :—Walton Ferry, *E. Sk.*

Earliest record 1633. Johnson.

12. *E. Peplus*, Linn.*Petty Spurge.*Bab. Man. 316, 17. Hook. St. Fl. 358. H. & S. 74. Hist. Yarm.
Hist. Wher. Top. Bot. Suff. E. and W. Galp. 100.

Annual weed ; on cultivated ground.

July, Aug.

Frequent in all the districts.

Earliest record 1771. Sir J. Cullum.

13. *E. exigua*, Linn.*Dwarf Spurge.*Bab. Man. 317. Hook. St. Fl. 358. H. & S. 74. Hist. Yarm.
Top. Bot. Suff. E. and W. Galp. 100.

Small annual weed ; in corn-fields.

June to Aug.

1. Honington || ; Sapiston ; Stanton ; Wetherden ;
Risby ; Brandon ; Barton Mills :—Barton, *Hb. Blk.* :—Bury
and Tuddenham, *Hb. Wils.* :—Hardwick, *Hb. Sk.* :—Paken-
ham, *Hb. Cas.* :—Woolpit, *J. Rasor* :—Haughley and Sax-
ham, *Sk. ms.* :—Mildenhall, *Sir C.J.F.B.*2. Long Melford :—Bildeston, *Hb. Cas.* :—Hitcham,
Hb. Hens. :—Kersey, *E.F.L.* :—Cockfield, *W.J.* :—Thurlow,
*Hb. F.*3. Mettingham ; Lound ; Lowestoft ; Kessingland ;
Benacre :—Gorleston, *Phyt.* 1862 :—Bradwell, *Hb. Geld.*4. Botesdale ; Burgate :—Gt. Glemham, *E.N.B.*5. Grundisburgh, *F.H.* :—Hemingstone, *T.B.* :—Cod-
denham, *F. Fox* :—Ashbocking, *F.C.S.* :—Bramford, *Haward.*

Earliest record 1771. Sir J. Cullum.

14. *E. Lathyris*, Linn.

Caper Spurge.

Bab. Man. 317. Hook. St. Fl. 359. H. & S. 74. Galp. 100.

Biennial weed; usually in gardens, probably the result of former cultivation. June, July.

1. Honington ||; Hopton; Mildenhall:—sparingly in the lane between Ickworth Park and Saxham Gate, *E. Sk.*:—Gazeley, *Rev. F. Tearle*.

2. Long Melford and Nayland.

4. Withersdale, *Galp.*

5. Stutton; Needham Market, *E. Clowes*.

Earliest notice 1862. E. Skepper.

Mercurialis, Linn.

1. *M. perennis*, Linn.

Dog Mercury.

Bab. Man. 317. Hook. St. Fl. 360. H. & S. 74. Hist. Wher.

Top. Bot. Suff. E. and W. Galp. 100.

Herbaceous perennial; in woods and under hedges.

Frequent in all the districts.

April, May.

Earliest record 1771. Sir J. Cullum.

2. *M. annua*, Linn.

Annual Mercury.

Bab. Man. 317.

Hook. St. Fl. 360.

H. & S. 74.

Top. Bot. Suff. E.

Annual weed; in waste places.

Aug., Sept.

1. Honington; Fornham St. Martin; Thetford; West Row, Mildenhall ||:—Bury, East Gate Station, &c., *Hbb. Blk., Sk. & Wils.*:—Pakenham, *Hb. Cas.*

2. Nayland ||:—Lavenham, *C.B.*

3. Lowestoft ||:—Gorleston, *J. Paget in Hb. Geld.*

4. Framlingham, *H. & S.*:—Walberswick:—Burgate, *Collins.*

5. Stutton and Claydon:—Ipswich, *H. & S.*:—Wherstead, *Haward*:—Woodbridge, *Hb. Ly.*

b. M. ambigua, Linn. fil.

Bab. Man. 317. Hook. St. Fl. 360.

5. Docks at Ipswich ||, *E. G. Varenne, Phyt. O.S.,* cxix, p. 90.

Earliest record 1771. Sir J. Cullum.

CERATOPHYLLACEÆ.

Ceratophyllum, Linn.

1. *C. demersum*, Linn. *Dark Hornwort.*
 Bab. Man. 317, 18. Hook. St. Fl. 378. H. & S. 74. Hist. Yarm.
 Top. Bot. Suff. E. and W. Galp. 103.
 Perennial aquatic; in streams and ponds. June, July.
 1. Knettishall in Lit. Ouse ||; Ampton Lake :—Barton,
Hb. Blk. :—Woolpit, *J. Rasor* :—Bury, *E. Sk.*
 2. Wiston ||; Nayland.
 3. Benacre :—Bungay, *Stock* :—Homersfield, *Galp.*
 4. Lake in Redgrave Park || :—Pond between Wey-
 bread and Wingfield, *Blackett.*
 Earliest notice 1835. D. Stock.
2. *C. submersum*, Linn. *Pale green Hornwort.*
 Bab. Man. 318. Hook. St. Fl. 379. H. & S. 75. Hist. Yarm.
 Aquatic herbaceous perennial; in ponds and streams.
 June, July.
 1. Lit. Ouse, Knettishall ||; Ampton Lake; Honington;
 Ixworth; Sapiston; Mildenhall; Barton Mills :—Wangford,
Hb. Cas. & F.K.E. in Hb. Ly.
 2. Nayland :—Hitcham, *Hb. Hens.*
 3. Bungay :—Ditches at Gorleston, *D. Turner* :—be-
 tween Yarmouth and Gorleston, *Sir J. E. Smith.*
 4. Dunwich.
 Earliest notice 1804. Dawson Turner.

CALLITRICHACEÆ.

Callitriche, Linn.

1. *C. verna*, Linn. *C. vernalis*, Koch.
Vernal Water Starwort.
 Bab. Man. 318. Hook. St. Fl. 152. H. & S. 75. Top. Bot.
 Suff. E. and W. Galp. 68.
 Aquatic weed; in ditches and pools; doubtfully annual.
 Common in all the districts. April to September.
 Earliest record 1773. Sir J. Cullum.
2. *C. obtusangula*, Le Gal. *Blunt Water Starwort.*
 Bab. Man. 318. Hook. St. Fl. 153.
 Aquatic weed; in ditches; doubtfully annual.

May to September.

1. Fen ditches, near West Row, Mildenhall ||.

3. Burgh Castle, *A.B*

First notice 1883. Hind.

3. *C. stagnalis*, Scop.*Pond Water Starwort.*

Bab. Man. 318.

Hook. St. Fl. 153.

Galp. 68.

Top. Bot.

Suff. E. ? and W. ?

Aquatic weed, doubtfully annual; in shallow pools or
on mud. May to September.*a. C. stagnalis*, Kütz.

Bab. Man. 318.

1. Hopton ||; Sapiston; Bury ||.

3. Kessingland ||.

4. In Waveney, Mendham, *H.B.C.**b. C. platycarpa*, Kütz.

Bab. Man. 318. Galp. 68.

1. Sapiston ||; Bury :—Wangford, *G. C. Druce, Rec. Club*, 1883.

3. Lound ||.

4. Frequent in the Mendham Marshes, *Galp.*

Earliest notice 1881. Hind.

4. *C. hamulata*, Kütz.*Hooked Water Starwort.*

Bab. Man. 319.

Hook. St. Fl. 153.

Top. Bot. Suff. E. and W.

Aquatic weed, doubtfully annual; in lakes and streams.

June to September.

1. Thetford Warren ||; Market Weston ||; Ixworth
Thorpe :—Pakenham Fen, *Hb. Cas.*

3. Kessingland; Beccles.

4. Redgrave ||; Wortham.

b. C. pedunculata, DC.

Bab. Man. 319.

Hook. St. Fl. 153.

H. & S. 75.

1. Thetford Warren ||.

5. Ipswich, *H. & S.*Earliest notice 1839. Mrs. Casborne. See *C. autumnalis*.

(*C. autumnalis*, Linn., regarded by some as a Suffolk plant, is likely an error; the plant so named from Pakenham Fen in *Hb. Cas.* is *C. hamulata*. There is no genuine Suffolk specimen in any of the Herbaria which have been examined.)

URTICACEÆ.

Parietaria, Linn.

1. *P. diffusa*, Koch. *P. officinalis*, Linn.
Pellitory of the wall.
 Bab. Man. 319, 20. Hook. St. Fl. 363. H. & S. 75. Hist. Yarm.
 Top. Bot. Suff. E. and W. Galp. 101.
 Herbaceous perennial; on ruins and old buildings.
 Several plants unaccountably appear on the beach, above
 high water, at Sizewell.
 Frequent in all the districts. June to September.
 1772. Sir J. Cullum.

Urtica, Linn.

1. *U. pilulifera*, Linn. *Roman Nettle.*
 Bab. Man. 320. Hook. St. Fl. 363. H. & S. 75. Hist. Yarm.
 Galp. 128.
 Annual weed; about towns; formerly plentiful in the
 N. E. district, now very rare, or nearly extinct.
 June to August.
2. Clare, C.B.
3. Gorleston, Wigg:—‘The whole Town is overrun
 with it, Mr. Bryant,’ *Dill. Ray in Hort. Ox.*; also *Dr. Brom-*
field in Hb. Wils.:—Southtown, *J. W. Ewing in Hb. Geld.*:
 Lowestoft ||, *Hbb. Blk & Cas.*:—Bungay, *Woodward*:—Bec-
 cles, *Hb. Ly.*
4. Thorpe, Dr. White.
5. Aldeburgh, *Dill. Ray*; also *Sir T. G. Cullum 1774*:
 —Felixstowe? on authority of the late Mr. W. Norman,
Miller.
 H. & S. give Euston as a locality; most likely a mistake.
 Earliest record 1724. Dillenius.

2. *U. urens*, Linn. *Small Nettle.*
 Bab. Man. 320. Hook. St. Fl. 362. H. & S. 75. Hist. Yarm.
 Top. Bot. Suff. E. and W. Hist. Wher. Galp. 100.
 Annual weed; on cultivated land and under walls.
 June to September.
 Frequent in all the districts; very common on light soil.
 Earliest record 1773. Sir J. Cullum.

3. *U. dioica*, Linn. *Common Nettle.*
 Bab. Man. 320. Hook. St. Fl. 362, 3. H. & S. 75. Hist. Yarm.
 Top. Bot. Suff. E. and W. Hist. Wher. Galp. 100.

Herbaceous perennial; borders of fields and waste places. June to September.

Very common in all the districts.

Var. *U. angustifolia*, A. Blytt.

1. Ampton; Culford.

2. Polstead ||; Stoke; Wiston:—Melford, C.B.

Earliest record 1773. Sir J. Cullum.

CANNABINACEÆ.

Cannabis, Linn.

[*Cannabis sativa*, Linn. Hemp of commerce, occasionally occurs as a casual from bird-seed.

5. Carlton Colville. There is a specimen from Hitcham in *Hb. Hens.* 1858.]

Humulus, Linn.

1. *H. Lupulus*, Linn.

Common Hop.

Bab. Man. 320. Hook. St. Fl. 363,4. H. & S. 75. Hist. Yarm.

Top. Bot. Suff. E. and W. Hist. Wher. Galp. 100.

Climbing herbaceous perennial, furnishing the hops of commerce; in hedges and damp copses. July, August.

Frequent in all the districts.

Earliest record 1773. Sir J. Cullum.

ULMACEÆ.

Ulmus, Linn.

1 *U. campestris*, Sm. *E. suberosa*, Ehrh. *Common Elm.*

Bab. Man. 321. Hook. St. Fl. 362. H. & S. 76. Galp. 100.

Top. Bot. Suff. E. and W.

Tall deciduous timber tree; in woods and hedgerows.

Frequent in all the districts.

March to May.

b. *U. glabra*, Sm.

Bab. Man. 321. Hook. St. Fl. 362.

1. Sapiston ||; Pakenham; Gt. Barton; Fornham St. Martin; Bury; Woolpit; West Row and Onehouse:—Stowlangtoft, *Hb. Rk.*

2. Long Melford ; Wiston and Polstead.
 3. Bungay. 4. Dunwich ; Mellis. 5. Stutton.

c. U. stricta, Lindl.

Bab. Man. 321. Hook. St. Fl. 362.

4. Stoke-by-Nayland ||, scarce.

5. Higham and Stratford St. Mary.

Earliest record 1773. Sir J. Cullum.

2. *U. montana*, With. *Wych Elm.*

Bab. Man. 321. Hook. St. Fl. 362. H. & S. 75. Top. Bot. Suff. E. and W.

Large deciduous timber tree ; in woods and hedgerows.

Frequent in all the districts. March, April.

A form with handsome, deeply-cut, darkly-blotched leaves, *U. cornuta*, grows in a copse at the North-end of Stoke-by-Nayland ||, and a somewhat similar form at Felixstowe.

Earliest notice 1860. E. Skepper.

AMENTIFERÆ.

Salix, Innn.

1. *S. pentandra*, Linn. *Bay-leaved Willow.*

Bab. Man. 323. Hook. St. Fl. 371. H. & S. 76. Galp. 128.

Small tree, with glossy fragrant foliage ; the most handsome of our willows. May, June.

3. Worlingham :—Bungay, frequent, Woodward.

4. Kelsale, *Ms. Davy*.

Earliest notice 1805. Woodward.

3. *S. fragilis*, Linn. *Crack Willow.*

Bab. Man. 324. Hook. St. Fl. 371. H. & S. 77. Hist. Bury. Top. Bot. Suff. E. and W. Galp. 102.

Tall deciduous tree ; in damp meadows. April, May.

a. S. decipiens, Hoffm.

Bab. Man. 324. Hook. St. Fl. 371. Hist. Yarm.

1. Troston, probably introduced.

3. Gorleston || :—Worlingham, *R. E. Leach*.

4. Nayland ||.

b. S. fragilis, Linn.

Bab. Man. 324. Hook. St. Fl. 371.

1. Hinderclay; Hopton; Bardwell; Ixworth Thorpe; Ixworth; Troston; West Stow; Cavenham; Lakenheath:—Bury, *Hb. Sk.*

2. Nayland ||; Wickhambrook; Polstead; Long Mel-ford:—Kersey, *E.F.L.*

3. Gorleston:—Barsham, *R. E. Leach.*

4. Near Weybread Mill, *Galp.*

c. S. Russelliana, Sm.

Bab. Man. 324. Hook. St. Fl. 371.

1. Hinderclay ||; Ixworth Thorpe Carr; Knettishall ||; Troston.

Earliest notice 1804. Sir T. G. Cullum.

4. *S. alba*, Linn.

White Willow.

Bab. Man. 324. Hook. St. Fl. 371. H. & S. 77. Top. Bot. Suff. E. and W. *Galp.* 102.

Tall deciduous tree; sides of streams and ditches.

Frequent in all the districts.

May.

b. S. cærulea, Sm.

Bab. Man. 324. Hook. St. Fl. 371.

1. Troston ||; Honington; Fakenham; Bardwell; Ixworth; Risby; Mildenhall:—Market Weston, *E.F.L.*

c. S. vitellina, Sm.

Bab. Man. 324. Hook. St. Fl. 371, 2. Hist. Yarm.

1. Risby ||; Lakenheath; Ixworth Thorpe Carr.

3. ———, *Paget.*

4. Burgate Wood.

Earliest record 1775. Sir J. Cullum.

*5. *S. undulata*, Ehrh.

S. lanceolata, Sm.

Lanceolate Osier.

Bab. Man. 324. Hook. St. Fl. 370. H. & S. 77. Hist. Yarm. Hist. Bury.

Small deciduous tree; in moist places. April, May.

1. Hopton, *E.F.L.*:—near Icklingham Bridge, *Hist. Bury.*

3. Bradwell, *Borrer & D. Turner, 1810*:—Beccles.

Earliest notice 1804. Sir T. G. Cullum.

6. *S. triandra*, Linn. *Long-leaved triandrous Osier.*

Bab. Man. 324,5. Hook. St. Fl. 370. H. & S. 77. Hist. Fram.
Top. Bot. Suff. E. and W. Galp. 102.

Small deciduous tree; in damp places. April, May.

1. West Stow ||; Thelnetham ||; Cavenham; Lakenheath; Livermere; Fornham St. Martin; Honington; Fakenham; Market Weston:—Barton, *Hb. Blk.*:—Coney Weston, *F.F.L.*:—Rougham, *H. & S.*

2. Nayland and Stoke ||.

3. Fritton and Kessingland; Beccles:—near Bungay, *M.M.*

4. Gt. Glemham, *E.N.B.*

b. S. Hoffmanniana, Sm.

Bab. Man. 324. Hook. St. Fl. 370.

1. Sapiston ||; Troston ||; Euston; Thelnetham.

2. Nayland.

c. S. amygdalina, Linn.

Bab. Man. 324,5. Hook. St. Fl. 370. H. & S. 77.

1. West Stow; Troston ||; Fornham.

3. Fritton ||.

Earliest record 1775. Sir J. Cullum.

7. *S. purpurea*, Linn. *Purple Willow.*

Bab. Man. 325. Hook. St. Fl. 377,8. H. & S. 77. Hist. Yarm.
Top. Bot. Suff. E. and W. Galp. 102.

Small deciduous tree; marshes and river-banks.

March, April.

1. Haughley ||; Thurston; Bardwell; Brandon; Lakenheath; Mildenhall; Tuddenham; Newmarket.

2. Stoke; Wiston ||; Long Melford.

3. Beccles.

4. Near Weybread Mill, *Galp.*

b. S. Woolgariana, Borr.

Bab. Man. 325. Hook. St. Fl. 378.

1. Bardwell; Troston.

3. Beccles.

c. S. ramulosa, Borr.

Bab. Man. 325. Hook. St. Fl. 378.

1. Bardwell; Troston.

2. Wiston ||.

d. S. Lambertiana, Sm.

Bab. Man. 325. Hook. St. Fl. 378. Hist. Fram. Hist. Bury.

1. About Lackford Bridge, near Icklingham, *Crowe*:—
Bury, *Sir J. E. Smith*.

3. Bradwell, *J. Woods, jun., 1805*.

e. S. Helix, Linn.

Bab. Man. 325. Hook. St. Fl. 378. Hist. Bury.

1. Brandon ||. Near Icklingham Bridge, *Sir T. G. Cullum*.

Earliest record 1775. *Sir J. Cullum*.

8. *S. rubra*, *Huds.*

Rose Willow.

Bab. Man. 325. Hook. St. Fl. 378. H. & S. 77. Hist. Bury.
Top. Bot. Suff. E. and W.

Deciduous tree ; in marshes and wet meadows.

April, May.

1. Tuddenham || :—Honington :—Icklingham, *Rev. J. Hemsted*.

b. S. Forbyana, Sm.

Bab. Man. 325. Hook. St. Fl. 378. H. & S. 77. Hist. Yarm.

1. Near Icklingham. 3. Bradwell, *Borrer*.

Earliest record 1804. *Sir T. G. Cullum*.

9. *S. viminalis*, Linn.

Common Osier.

Bab. Man. 326. Hook. St. Fl. 375. H. & S. 77. Hist. Yarm.
Hist. Bury. Top. Bot. Suff. E. and W. Galp. 102.

Deciduous shrub ; much esteemed for basket making ;
wet places. April, May.

1. Market Weston || ; Troston Heath || ; Cavenham ;
Barton Mills ; Lakenheath ; Bury, *Hb. Sk.* :—Hopton,
E.F.L.

2. Long Melford, Wickhambrook and Stoke || :—Nay-
land, *Gray*.

3. Benacre :—Worlingham, *R. E. Leach*.

5. Gt. Bealings, *Moor* :—Felixstowe, *Purchas*.

b. S. intricata, Leefe.

Bab. Man. 326.

1. Knettishall || ; Bardwell.

5. Bawdsey.

c. S. stipularis, Leefe.

Bab. Man. 326.

1. Sapiston ; Knettishall ||.

Earliest record 1775. *Sir J. Cullum*.

10. *S. stipularis*, Sm. *Stipuled Osier.*

Bab. Man. 326. Hook. St. Fl. 375. H. & S. 77. Hist. Bury.

Deciduous shrub ; in wet places ; (cultivated in Suffolk,
Hook. St. Fl.) March.

1. Near Bury, *Crowe*:—Honington ; Sapiston ; Troston.

Earliest notice 1804. Sir T. G. Cullum.

11. *S. Smithiana*, Willd. *Smith's Osier.*

Bab. Man. 326. Hook. St. Fl. 375. Hist. Bury. Top. Bot.
Suff. W.

Deciduous shrub ; in wet places. April, May.

1. Market Weston || :—near Bury, *Crowe*.

3. Worlingham, *R. E. Leach*.

Earliest notice 1804. Sir T. G. Cullum.

12. *S. acuminata*, Sm. *Acuminate Sallow.*

Bab. Man. 326. Hook. St. Fl. 375.

Small deciduous tree ; in woods or hedges. April.

1. Hopton, *E.F.L.* 3. Worlingham.

Earliest notice 1883. Rev. E. F. Linton.

13. *S. cinerea*, Sm. *Sallow.*

Bab. Man. 327. Hook. St. Fl. 372. H. & S. 77. Hist. Yarm.
Top. Bot. Suff. E.

Deciduous shrub ; in woods and hedges. March, April.

Frequent in all the districts.

b. S. aquatica, Sm.

Bab. Man. 327. Hook. St. Fl. 372. Hist. Yarm. Galp. 102.

1. Lakenheath ; Ixworth Thorpe ; Sapiston ; Onehouse.

2. Long Melford ; Wiston ; Nayland ; Polstead.

3. Fritton ||. 4. Redgrave Fen || ; Dunwich.

c. S. oleifolia, Sm.

Bab. Man. 327. Hook. St. Fl. 372.

1. Lakenheath ; Euston ; Ixworth Thorpe ; Sapiston ;
Onehouse || ; Thelnetham ||.

2. Wiston ; Polstead. 4. Dunwich.

Earliest notice 1834. Paget.

14. *S. aurita*, Linn. *Round-leaved Sallow.*

Bab. Man. 327. Hook. St. Fl. 372. H. & S. 77. Hist. Yarm.
Top. Bot. Suff. E. and W. Galp 128.

Small deciduous shrub ; in woods, hedges and borders of
fields ; less frequent in Suffolk than elsewhere. April, May.

1. Pakenham Wood || :—Dalham Wood, *Rev. F. Tearle*.
 2. Wiston ||. 3. Bungay, *Woodward*.
 Earliest record 1812. Woodward.

15. *S. caprea*, *Linn.* *Great Sallow.*

- Bab. Man. 327. Hook. St. Fl. 372. H. & S. 77. Hist. Yarm.
 Hist. Bury. Top. Bot. Suff. E. and W.
 Small deciduous tree ; in woods and hedges.
 Frequent in all the districts. April, May.
 Earliest record 1773. Sir J. Cullum.

20. *S. repens*, *Linn.* *Creeping Willow.*

- Bab. Man. 329. Hook. St. Fl. 373. H. & S. 77. Hist. Yarm.
 Hist. Bury. Top. Bot. Suff. E.
 Small deciduous shrub ; varied in habit ; on wet heaths,
 March to May.
 1. Wangford ; Lakenheath || :—Lit. Bombay Fen,
 Mildenhall, *Hb. Rk.* & *Sir C.J.F.B.* :—Tuddenham Heath,
W.J. :—Cavenham, *E. Sk.*
 3. ———, *Paget*.

b. S. fusca, *Sm.*

- Bab. Man. 329. Hook. St. Fl. 373. Hist. Yarm.? H. & S. 77.
 1. Brandon || ; Hinderclay || :—Tuddenham Bog, *Hb. Sk.*

d. S. ascendens, *Sm.*

- Bab. Man. 329. Hook. St. Fl. 373. Hist. Yarm.
 1. Lakenheath || ; Brandon :—Tuddenham Heath,
Sir C.J.F.B. in Hb. Rk., 1847.

e. S. incubacea, *Linn.*

- Bab. Man. 329. Hook. St. Fl. ? 373.
 1. Lakenheath. 3. Hopton, *Sir J. E. Smith.*

f. S. argentea, *Sm.*

- Bab. Man. 329. Hook. St. Fl. 373.
 1. Thelnetham ||.
 3. Plantation at Hopton ? *Wigg.*

Earliest notice 1774. Sir J. Cullum.

21. *S. ambigua*, *Ehrh.* *Ambiguous Willow.*

- Bab. Man. 329. Hook. St. Fl. ? 373. Hist. Yarm.
 Small deciduous shrub ; on gravelly heaths. May.
 3. Hopton, *Borrer.*

c. *S. spathulata*, Willd.

Bab. Man. 329. Hook. St. Fl. 373.

3. Hopton, *Borrer*.

Earliest notice 1804. *Borrer*.

Populus, Linn.

1. *P. alba*, Linn.

White Poplar. Abele.

Bab. Man. 332, 3. Hook. St. Fl. 369. H. & S. 77. Hist. Yarm.

Top. Bot. Suff. E. and W. Galp. 102.

Large deciduous tree ; in woods and hedgerows.

March, April.

1. Barnham || ; Troston ; Sapiston Grove ; Barningham ; Bardwell ; Brandon ; Mildenhall ; Barton Mills :—Bury, *Hb. Sk.* :—Santon Downham, *Norgate*.

2. Long Melford :—Hitcham, *Prof. Hens.*

3. Fritton and Bungay :—St. Margarets, *Galp.*

4. Saxmundham :—Thrandeston, *Collins.*

5. Shrubland Park :—Gt. Bealings, *Moor.*

Earliest notice 1834. *Paget.*

2. *P. canescens*, Sm.

Grey Poplar.

Bab. Man 333. Hook. St. Fl. 369. Hist. Yarm. Top. Bot.

Suff. E.

Tall deciduous tree ; in woods and hedgerows.

March, April.

1. Euston || ; Honington ; Ixworth Thorpe ; Troston ; Thetford and Mildenhall.

2. Polstead || ; Wattisham.

3. Burgh Castle and Kessingland.

4. Redgrave ; Mellis :—Weybread, *H.B.C.*

Earliest notice 1834. *Paget.*

3. *P. tremula*, Linn.

Aspen.

Bab. Man. 333. Hook. St. Fl. 369, 70. H. & S. 77. Top. Bot.

Suff. E. and W.

Deciduous tree ; in woods.

April.

Frequent in all the districts.

P. villosa, Lange.

Hook. St. Fl. 370. Lond. Cat. 1313.a.

1. Thurston || ; Hinderclay ; Pakenham ; Ixworth Thorpe :—Ixworth, *Hb. Blk.* :—Felsham, *Hb. Sk.*

2. Wiston :—Claydon, *Hb. Ly.*

3. Benacre.

4. Redgrave ; Burgate ; Dunwich. 5. Bergholt ||.

P. glabra, Syme.

Hook. St. Fl. 370. Lond. Cat. 1313.b.

1. Wicken ; Bardwell || ; Hinderclay ; Livermere.

3. Benacre. 4. Redgrave Fen ; Wingfield.

Earliest record 1773. Sir J. Cullum.

4. *P. nigra*, Linn. *Black Poplar*.

Bab. Man. 333. Hook. St. Fl. 370. H. & S. 77. Galp. 102.

Top. Bot. Suff. E. ? and W ?

Tall deciduous tree ; by rivers and hedgerows. March.

Frequent in all the districts ; usually planted.

Earliest record 1773. Sir J. Cullum.

Myrica, Linn.

1. *M. Gale*, Linn. *Sweet Gale*.

Bab. Man. 333. Hook. St. Fl. 364. H. & S. 76. Hist. Yarm.

Top. Bot. Suff. E.

Small deciduous shrub ; in bogs.

May.

1. Lakenheath Bog, near Wangford, *Sk. ms.* :—edge of smaller pond, Ampton.

3. Lound, *Paget* :—North Cove, *Holmes* :—Marshes directly South of Oulton Broad and Dyke, *H. & S.* :—Barnby Broad, Worlingham, *R. E. Leach*.

Earliest record 1834. *Paget*.

Betula, Linn.

1. *B. verrucosa*, Ehrh. *B. alba*, Linn. *White Birch*.

Bab. Man. 333,4. Hook. St. Fl. 366. H. & S. 76. Hist. Fram.

Top. Bot. Suff. E. and W. Galp. 104.

Deciduous tree ; on heaths and in woods. April, May.

Frequent in all the districts.

Earliest record 1773. Sir J. Cullum.

2. *B. glutinosa*, Fries. *Common Birch*.

Bab. Man. 334. Hook. St. Fl. 366. Galp. 101.

Deciduous tree ; in heaths and woods. April, May.

1. Culford Heath || ; Icklingham ; Lakenheath :—Fornham, *Hb. Ly*.

4. Dunwich.

b. B. pubescens, Ehrh.

Bab. Man. 334. Hook. St. Fl. 366.

4. Redgrave Fen ||.

Earliest notice 1876. Hind.

Alnus, Tourn.

1. *A. glutinosa*, Gært.

Common Alder.

Bab. Man. 334. Hook. St. Fl. 366. H. & S. 76. Hist. Yarm.

Top. Bot. Suff. E. and W. Galp. 101.

Small deciduous tree; by streams and in fens.

Common in all the districts.

March.

Earliest record 1773. Sir J. Cullum.

Fagus, Linn.

1. *F. silvatica*, Linn.

Common Beech.

Bab. Man. 334. Hook. St. Fl. 367. H. & S. 76. Top. Bot.

Suff. E. and W. Galp. 101.

Large deciduous tree; in woods. March, April.

1. Troston ||; Honington; Sapiston Grove; Fakenham Wood; Euston; Bardwell; Knettishall; Thetford; Brandon; Mildenhall; Onehouse; Harleston:—Pakenham, *Hb. Cas.*

2. Nayland:—Hitcham, *Hb. Hens.*

3. Bungay; Burgh Castle; Kessingland; Beccles.

4. Stuston; Sibton.

5. Stutton; Shrubland Park:—Gt. Bealings, *Moor.*

Earliest record 1773. Sir J. Cullum.

Castanea, Tourn.

[*C. vulgaris*, Lam. *C. sativa*, Mill.

Sweet Chestnut.

Bab. Man. 334. Hook. St. Fl. App. 534. Galp. 101.

Large deciduous tree; introduced. May.

1. Euston Park; Fakenham; Icklingham; Honington ||, introduced.

2. Polstead; Stoke; Long Melford.

3. Burgh Castle; Benacre; Worlingham:—Bungay, *Stock.*

4. Weybread, *H.B.C.*:—Wortham, *Collins*:—Fressingfield, *Galp.*

5. Stutton; Woolverstone; Shrubland Park :—Gt. Bealings, Moor.

Earliest record 1773. Sir J. Cullum.]

Quercus, Linn.

1. *Q. Robur*, Linn. Oak.

Bab. Man. 335. Hook. St. Fl. 367. H. & S. 76. Hist. Yarm.

Top. Bot. Suff. E. and W. Galp. 101.

Large deciduous timber tree; in woods and hedgerows.

April, May.

a. *Q. pedunculata*, Ehrh. A form of *Quercus Robur* var. *pedunculata* occurs at Honington, with long narrow fruit; at Fakenham, a form with pendulous branches; and at Melis, a form with petiolate leaves (petioles $\frac{3}{8}$ to $\frac{1}{2}$ inch), and very long (4 to 5 inches) peduncles with scattered fruit.

Bab. Man. 335. Hook. St. Fl. 367.

Frequent in all the districts.

c. *Q. sessiliflora*, Salisb.

Bab. Man. 335. Hook. St. Fl. 367.

1. Pakenham, *Hbb. Cas. & Rk.* :—Dalham Wood, Rev. F. Tearle.

5. Gt Bealings, Moor.

Earliest record 1773. Sir J. Cullum.

Corylus, Linn.

1. *C. Avellana*, Linn. Common Hazel.

Bab. Man. 335. Hook. St. Fl. 368. H. & S. 76. Hist. Yarm.

Top. Bot. Suff. E. and W. Galp. 101.

Deciduous shrub; in woods and hedges. March, April.

Common in all the districts.

Earliest record 1773. Sir J. Cullum.

Carpinus, Linn.

1. *C. Betulus*, Linn. Hornbeam.

Bab. Man. 335. Hook. St. Fl. 368. H. & S. 75. Galp. 101.

Top. Bot. Suff. E. and W.

Large deciduous timber tree; in woods and hedges.

May.

1. Fakenham; Ixworth Thorpe; Sapiston and One-

house :—Felsham, *C.B.* :—Barton, *Hb. Blk.* :—Hardwick, *Hb. Sk.* :—Pakenham and Haughley, *Hb. Cas.* :—Stowlangtoft, *Hb. Rk.* :—Bury and Ixworth, *H. & S.* :—Santon Downham, *Norgate*.

2. Polstead || ; Acton :—Hitcham, *Hb. Hens.* :—Cockfield, *C.B.*

3. Mettingham ; Fritton ; Lound ; Kessingland :—Bungay, *Stock* :—St. Margarets, *Galp.*

4. Darsham ; Rendham ; Sibton :—Gt. Glemham, *E.N.B.*

5. Shrubland Park :—Gt. Bealings, *Moor* :—Bergholt, *H. & S.*

Earliest record 1773. Sir J. Cullum.

GYMNOSPERMÆ.

CONIFERÆ.

Taxus, Linn.

1. *T. baccata, Linn.* *Yew.*

Bab. Man. 336. Hook. St. Fl. 380, 1. H. & S. 78. Top. Bot. Suff. E. and W.

Evergreen tree ; in woods. March, April.

1. Honington || ; Fakenham ; Livermere ; Ampton ; Bradwell ; Walsham ; Shelland.

2. Long Melford and Stoke :—Hitcham, *Hb. Hens.*

3. Burgh Castle. 4. Sibton Abbey.

5. Woolverstone :—Gt. Bealings, *Moor.*

Earliest record 1773. Sir J. Cullum.

Juniperus, Linn.

1. *J. communis, Linn.* *Common Juniper.*

Bab. Man. 337. Hook. St. Fl. 380. H. & S. 78. Top. Bot. Suff. E. and W.

Evergreen shrub ; on dry hills. May.

1. Ickworth Park, *Hb. Sk.* :—Dalham, *Rev. F. Tearle* :—Ampton, probably introduced.

Very rarely, if at all native in Suffolk.

Earliest record 1773. Sir J. Cullum.

Pinus, *Linn.*1. *P. silvestris*, *Linn.**Scotch Pine.*

Bab. Man. 337. Hook. St. Fl. 380. H. & S. 78. Galp. 103.

Evergreen timber tree; on heaths and moors; and as remains have been found in ancient forest beds, it is an aboriginal species in Suffolk; although there may be no existing trees, which can be correctly termed indigenous. The species is constantly reproduced spontaneously in spots, where it is likely to attain full size and maturity. May, Jun.

1. Troston ||; Elveden; West Stow; Cavenham; Tud-denham; Mildenhall; Lakenheath; Knettishall; Thelne-tham; Stowlangtoft.

2. Polstead:—Hitcham, *Hb. Hens.*

3. Burgh Castle; Belton; Beccles:—Benacre, *Sk. ms.*:—Homersfield, *Galp.*

4. Redgrave.

5. Stutton; Shrubland Park:—Gt. Bealings, *Moor.*

Earliest record 1773. Sir J. Cullum.

MONOCOTYLEDONES.

TRILLIACEÆ.

Paris, *Linn.*1. *P. quadrifolia*, *Linn.**Herb Paris.*

Bab. Man. 338. Hook. St. Fl. 413. H. & S. 87. Hist. Bury.

Top. Bot. Suff. E. and W.

Herbaceous perennial; in damp woods; leaves vary from 3 to 6. May.

1. Pakenham ||:—The Link, Rougham, *Hb. Blk.*:—Clopton Grove, Woolpit, *Hb. F.*:—Stowlangtoft, *Hb. Rk.*:—Felsham Wood, *C.B.*:—Woods at Rushbrooke and Great Saxham, *Sir T. G. Cullum*:—Dalham and Gazeley Woods, *Sk. ms.*:—Onehouse Wood, *Mrs. Terry.*

2. Wadgall's Wood, Thurlow, *Hb. F.*:—Hitcham, *Prof. Hens.*:—Cockfield, *W.J.*:—Poslingford, *Hb. Ly.*:—Boxted, *Miss Ly.*

3. Bungay, *H. & S.* 4. Burgate Wood, *C. J. Ashfield.*

5. Gosbeck, *T.B.*:—Needham Market, *E. Clowes*:—Barking, *F. W. Peck*:—Prestley Wood, Barking, *Miller.*

Earliest record 1773. Sir J. Cullum.

DIOSCOREACEÆ.

Tamus, *Linn.*

1. *T. communis*, *Linn.* *Black Bryony.*

Bab. Man. 338. Hook. St. Fl. 401. H. & S. 86. Hist. Fram.
 Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 107.
 Climbing herbaceous perennial; in woods and hedges.

May, June.

1. Fakenham ||; Honington; Troston; Ixworth;
 Pakenham; Thelnetham; Onehouse:—The Link, Rougham,
Hb. Blk.:—Norton, *Hb. Cas.*:—Thurston, *Hb. Sk.*:—Wal-
 sham, *Hb. Dun.*:—Hardwick, *E. Sk.*:—Bury, *Hb. Ly.*

2. Stoke and Nayland:—Hitcham, *Hb. Hens.*:—Lit.
 Thurlow, *Hb. F.*:—Cockfield, *W.J.*

3. Mettingham; Lound; Hopton; Kessingland; Ben-
 acre:—Bungay, *Stock*:—Fritton, *Paget*:—Gorleston, *Phyt.*
 1862:—Flixton, *E. Sk.*

4. Burgate; Mellis; Darsham:—Wortham Green,
C. J. Ashfield:—Framlingham, *Crabbe*:—Great Glemham,
E.N.B.

5. Felixstowe:—Ipswich, *Ips. Portf.*:—Gt. Bealings,
Moor:—Grundisburgh, *T. H.*:—Hemingstone, *T.B.*:—Ash-
 bocking, *F.C.S.*:—Wherstead, *Haward.*

Absent from the Breck country.

Earliest record 1773. Sir J. Cullum.

HYDROCHARIDACEÆ.

Hydrocharis, *Linn.*

1. *H. Morsus-ranæ*, *Linn.* *Frog-bit.*

Bab. Man. 339. Hook. St. Fl. 381, 2. H. & S. 83. Hist. Yarm.
 Top. Bot. Suff. E. and W. Galp. 104.

Herbaceous perennial; in ponds and ditches.

July, August.

1. Ixworth Thorpe Carr ||; Bardwell; Sapiston;
 Fakenham; Thelnetham; Lakenheath:—Bury, *Hb. Sk.*:—
 Fornham, *Hb. Blk.*:—between Barton Mills and Mildenhall,
Hb. F.:—Dalham, *Rev. F. Tearle*:—Tuddenham, *E. Sk.*:—
 Cavenham, *Sk. ms.*

2. Nayland:—Wiston, *Gray*:—Hadleigh, *F. Spalding.*

3. Beccles; St. Olaves; Kessingland; Benacre:—Bungay, *Stock*:—Southwold, *Hbb. Cas. & Rk.*:—Belton, *Phyt. 1862*:—Lowestoft, *Miss Jeffes.*:—Oulton, *McAub.*

4. Redgrave; Wortham Green; Stuston; Oakley and Dunwich:—Aldringham, *Hb. Cas.*:—Framlingham; Farnham and Snape, *F.N.B.*:—Weybread Mill; Mendham, *Galp.*

5. Ipswich, *Ips. Portf.*:—Shelley, *F. Spalding*:—Aldeburgh, *Miller*:—Orford:—St. Olaves, *C.A.W.*

Earliest record 1773. Sir J. Cullum.

Stratiotes, *Linn.*

1. *S. aloides*, *Linn.*

Water Soldier.

Bab. Man. 339. Hook. St. Fl. 382. H. & S. 83. Hist. Fram.

Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 104.

Herbaceous perennial; in ditches and ponds. July.

1. Brandon, *H. & S.*

3. St. Olaves ||; Belton; Fritton Decoy:—Ditches near Bungay and Worlingham, *Woodward*:—Bradwell, *Wigg*:—Homersfield, *H.B.C.*:—Benacre Broad, *F.N.B.*:—Somersleyton, *H. & S.*:—Beccles and Barnby, *Sk. ms.*:—Roos Hall Marshes, Beccles, *R. E. Leach.*

4. Castle Ditch, Framlingham, *Crabbe*:—Wortham, *Collins.*

5. Lowdham Hall Mere, *Crabbe*:—Baylham, *F. Fox.*

Earliest record 1798. Rev. G. Crabbe.

Anacharis, *Rich.*

*1. *A. Alsinastrum*, *Bab.* *Elodea canadensis*, *Michx.*

Water Thyme.

Bab. Man. 339, 40. Hook. St. Fl. 382. H. & S. 82. Galp. 104.

Herbaceous perennial; in ponds, ditches, sluggish rivers and streams. This plant, first seen in a wild state in Great Britain in 1842, has spread with amazing rapidity throughout the country, and is now found in most parts of it. Its native home is North America. July, September.

1. Ixworth Thorpe ||; Thetford; Barnham; Euston; Fakenham; Troston; Livermere; Lakenheath:—Barton Mills, *Hb. F.*:—Lackford Bridge, *Hb. Sk.*:—Mildenhall, *Sir C.J.F.B.*:—Tuddenham and Icklingham, *W.J.*

2. Hitcham, *Hb. Hens.*

3. Bungay ; Beccles ; St. Olaves ; Kessingland ; Ben-acre :—Oulton, *McAub.*

4. Stuston ; Walberswick.

5. Holbrooke :—Bramford, *F. Fox.*

Earliest notice 1855. Prof. Henslow.

ORCHIDACEÆ.

Orchis, *Linn.*

1. *O. Morio.*

Helmet, or Green-winged Orchis.

Bab. Man. 343. Hook. St. Fl. 390. H. & S. 84. Hist. Fram.

Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 105.

Herbaceous perennial ; in meadows and pastures.

May, June.

1. Ixworth Thorpe || ; Bardwell ; Coney Weston ; Barnham Heath ; West Stow :—Rougham, *Hb. Rk.* :—Walsham, *Hb. Dun.* :—Market Weston, *Gray* :—Barton and Mildenhall, *Sir C.J.F.B.* :—Hardwick, *E. Sk.* :—Bradfield, *Hb. Ly.*

2. Hitcham, *Hb. Hens.* :—Nayland, *Gray* :—Cockfield, *W.J.* :—Lit. Thurlow, *Hb. F.* :—Stoke-by-Clare and Acton, *J.F.W.*

3. Belton, *Paget* :—Oulton, *E. Sk.*

4. Framlingham, *Crabbe* :—Gt. Glemham, &c., *E.N.B.* :—Huntingfield, *Holland* :—Rishangles, *Hb. Peck.* :—Palgrave and Thrandeston, *Collins.*

5. Otley, *E.N.B.* :—Gt. Bealings, *Moor* :—Grundisburgh, *T.H.* :—Freston, *W.L.N.* :—Wherstead, *Haward* :—Hemingstone, *T.B.*

A plant in *Hb. F.*, collected at Rattlesden || June 8, 1854, has its inflorescence in a corymb three inches across.

Earliest record 1773. Sir J. Cullum.

2. *O. mascula*, *Linn.*

Early purple Orchis.

Bab. Man. 343. Hook. St. Fl. 389. H. & S. 84. Hist. Fram.

Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 105.

Herbaceous perennial ; in woods and thickets. May.

Frequent in all the districts.

A form of this plant having no spur, *O. discalcarata*, has been kindly forwarded from Norton || in 1884, 5, & 6, by Mr. J. Rasor, of Woolpit.

Earliest record 1773. Sir J. Cullum.

6. *O. ustulata*, *Linn.* Dwarf Orchis.

Bab. Man. 344. Hook. St. Fl. 390. H. & S. 84. Hist. Bury.
Top. Bot. Suff. W.

Herbaceous perennial; on chalky banks. June.

1. 'In and near the large plantation of Scotch firs before you come to Cavenham, chalky and dry,' *Sir J. Cullum*:—Risby Heath ||, *Hb. Sk.*:—Dalham, *Rev. F. Tearle*:—Newmarket Heath, *Ms. Davy*.

Earliest record 1st June, 1773. *Sir J. Cullum*.

7. *O. maculata*, *Linn.* Spotted Orchis.

Bab. Man. 344. Hook. St. Fl. 390. H. & S. 84. Hist. Fram.
Hist. Yarm. Hist. Wher. Top. Bot. Suff. E. and W. Galp. 105.

Herbaceous perennial; in moist pastures and heaths.

Common in all the districts. May, June.

Earliest record 1773. *Sir J. Cullum*.

8. *O. latifolia*, *Linn.* Marsh Orchis.

Bab. Man. 345. Hook. St. Fl. 390. H. & S. 84. Hist. Fram.
Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 105.

Herbaceous perennial; in moist meadows. May, June.

1. Hopton ||; Bardwell; Ixworth Thorpe; Fakenham:—Pakenham, *Hb. Cas.*:—Market Weston Fen, *Gray*:—Mildenhall, *Hb. Blk.*:—Tuddenham Bog, *W.J.*

2. Hitcham, *Hb. Hens.*:—Washdall Wood, Thurlow, *Hb. F.*

3. Belton, *Phyt. 1862*:—Oulton, *E. Sk.*:—St. Margarets, *Galp.*

4. Dunwich:—Redgrave Fen, *Hb. Dun.*:—Framlingham, *Crabbe*:—Thwaite, *Hb. Peck*:—Weybread Marshes, *Galp.*

5. Needham Market, *E. Clowes*:—Ipswich, *W.L.N.*:—Woodbridge, *H.M.S.*

Earliest record 1773. *Sir J. Cullum*.

9. *O. incarnata*, *Linn.* Late Purple Orchis.

Bab. Man. 345. Hook. St. Fl. 390. Galp. 105.

Herbaceous perennial; in fens and swampy meadows.

June.

1. Thelnetham ||; Hopton Fen ||; Bardwell ||; Sapiston ||; Troston; Tuddenham; West Stow:—old pastures round Felsham Hall Wood, *Dr. White*.

2. Swampy Meadows, Long Melford.

3. St. Margarets, *H.B.C.*

4. Sweffling; Gt. Glemham, *E.N.B.* :—meadows near Weybread Mill, *Galp.*

b. O. angustifolia, Bab.

1. Hopton Fen ||.

4. Redgrave Fen.

First notice 1860. Dr. White.

10. *O. pyramidalis*, Linn.

Pyramidal Orchis.

Bab. Man. 345. Hook. St. Fl. 391. H. & S. 84. Hist. Fram.

Top. Bot. Suff. E. and W. Galp. 105.

Herbaceous perennial; in chalky pastures. July.

1. Bradfield St. Clare, *C.B.* :—Barton, *Hb. Blk.* :—Bury, *Hb. Sk.* :—Stanton, *Hb. Cas.* :—Clopton Grove, Rat-
tlesden, *Mrs. Parker* :—Woolpit, *F.* :—Wordwell, *Sk. ms.* :—
Felsham, *H. & S.* :—Haughley :—Fornham, *Hb. Ly.*

2. Acton :—Cockfield, *C.B.* :—Hitcham, *Prof. Hens.* :
—Melford, *J.F.W.*

3. Bungay, *Stock* :—Flixton, *Galp.* :—Corton, *Hb. Salm.*

4. Burgate, *C. J. Ashfield* :—Framlingham, *Crabbe* :—
Gt. Glemham, *E.N.B.* :—Huntingfield, *Holland* :—Yaxley,
Sewell :—Mendham; Hoxne, *Galp.* :—Brockford, *Hb. Peck* :
—Mendlesham, *Hb. Salm.*

5. Grundisburgh, *T.H.* :—Hemingstone, *T.B.* :—Ash-
bocking, *F.C.S.* :—Needham Market :—Little Blakenham,
Haward :—Ipswich and Bramford, *Miller.*

Earliest record 1773. Sir J. Cullum.

11. *O. hircina*, Scop.

Lizard Orchis.

Bab. Man. 345. Hook. St. Fl. 391. H. & S. 84. Top. Bot. Suff. E.

Herbaceous perennial; on chalky heaths; very rare.

May.

4. Gt. Glemham, *E.N.B. in Phyt.*, O.S. vol. II. 782 &
942, vol. III. ii.; also, *Phyt. N.S.* 1858, p. 557. We have
seen Mr. Bloomfield's specimen, which is now in the posses-
sion of Prof. C. C. Babington. It occurred on gravelly soil.

Found 1847. Rev. E. N. Bloomfield.

Gymnadenia, R. Brown.

1. *G. Conopsea*, R. Brown. *Habenaria Conopsea*, Benth. *Fragrant Gymnadenia.*

Bab. Man. 346. Hook. St. Fl. 393, 4. H. & S. 84. Hist. Fram.

Top. Bot. Suff. E. and W.

Herbaceous perennial ; in moist meadows and fens.
 Occurs in all the districts. June, July.
 Earliest record 1773. Sir J. Cullum.

Aceras, *R. Brown.*

1. *A. anthropophora*, *R. Brown.* *Green-man Orchis.*

Bab. Man. 346. Hook. St. Fl. 392. H. & S. 85. Hist. Bury
 Top. Bot. Suff. E. and W. Galp. 105.

Herbaceous perennial ; on dry chalky pastures. June.

1. Hawstead, *Sir J. Cullum* :—Lit. Saxham, *Sir T. G. Cullum* :—Rougham, *Hb. Blk.* :—Gt. Welnetham, *Mrs. Carss* :—Stanton, *Hbb. Cas. & Rk.* :—Ickworth, *Sir J. E. Smith* :—Fakenham Wood, *Miss Bridgman* :—Rattlesden, *Mrs. Parker* :—Barton, *Sir C.J.F.B.* :—Drinkstone, *F.*

2. Rede, *Hb. Ly.* :—Hitcham, *Hbb. Hens. & Sk.* :—Rookseye Green, Cockfield, *W.J.* :—Whepstead, *Hb. Turn.*

3. The Grove, Bungay, *Holmes.*

4. Sternfield, *E.N.B.* :—Old Clay-pit, Westleton, *F. Spalding* :—Aspall, *Mrs. Preston* :—Mendham, *Rev. H. Tilney* :—Redgrave Fen, *Collins* :—Yoxford, *Ms. Davy.*

5. Blakenham, *Hb. F.* :—Claydon || and Bramford, *T.B.* :—Baylham, *Rev. Colville* :—Akenham, *Dr. Taylor* :—Little Blakenham, *Haward.*

Earliest record 1778. Sir J. Cullum.

Habenaria, *R. Brown.*

1. *H. viridis*, *R. Brown.* *Frog Orchis.*

Bab. Man. 346, 7. Hook. St. Fl. 394. H. & S. 85. Hist. Fram.
 Top. Bot. Suff. E. and W. Galp. 106.

Herbaceous perennial ; in moist pastures. June, July.
 Distributed in all the districts, but not frequent.

Earliest record 1773. Sir J. Cullum.

2. *H. bifolia*, *R. Brown.* *Field Butterfly Orchis.*

Bab. Man. 347. Hook. St. Fl. 395. H. & S. 85. Hist. Fram.
 Hist. Bury. Top. Bot. Suff. E. and W. Galp. 106.

Herbaceous perennial ; in pastures and heaths. The
 older localities are omitted as possibly referring to *H. chlorantha*.
 June, July.

1. Troston ; Fakenham :—Westley, *Hb. Sk.* :—Rattlesden, *Mrs. Parker* :—near Barton Mere and Briar's Wood, Hawstead, *Sir T. G. Cullum.*

2. Cavendish ||, *J.F.W.*:—Sudbury, *J.S.H.*:—Cockfield, *W.J.*

3. Hemstead, *W. M. Crowfoot.*

4. Weybread and Mendham, *H.B.C.*:—Huntingfield, *Holland.*

5. Gosbeck, *T.B.*:—Needham Market, *E. Clowes.*

Earliest record 1773. Sir J. Cullum.

3. *H. chlorantha*, *Bab.* *H. chloroleuca*, *Ridley.*
Wood Butterfly Orchis.

Bab. Man. 347. *Hook. St. Fl.* 395. *Hist. Bury?* *Galp.* 106.

Top. Bot. Suff. E. and W.

Herbaceous perennial; in woods and thickets.

May, June.

1. Ixworth Thorpe ||; Stanton:—Pakenham Wood, *Hb. Sk.*:—Tostock, *Mrs. Terry*:—Hardwick and Felsham Wood, *Sk. ms.*

2. Cockfield and Plumpton Wood, *C.B.*:—Hart Wood, *Lit. Thurlow, Hb. F.*:—Hitcham, *Hb. Hens.*

3. Bungay, *Sk. ms.*:—Flixton, *Galp.*:—Gunton Hall Woods, *G. Clowes in Hb. Geld.*

4. Sternfield, *Rev. J. Longe*:—Theberton, *T.W.G.*:—Gt. Glemham, *E.N.B.*:—Wortham, *Collins.*

First notice 1855. T. W. Gissing.

Ophrys, *Linn.*

1. *O. apifera*, *Huds.* *Bee Orchis.*

Bab. Man. 347. *Hook. St. Fl.* 392. *H. & S.* 85. *Hist. Fram.*

Hist. Bury. *Top. Bot. Suff. E. and W.* *Galp.* 106.

Herbaceous perennial; more frequently on chalky soil.

June, July.

1. Haughley and Thurston ||:—Barton, *Hb. Blk.*:—Hardwick, *Hb. Sk.*:—Langham, *Hb. Dun.*:—Stowlangtoft, *Hb. Rk.*:—Bradfield St. Clare, *C.B.*:—Stanton, *Hb. Cas.*:—Hawstead, *Sir J. Cullum*:—about Bury, *Sir T. G. Cullum*:—Rattlesden, *Mrs. Parker*:—Ickworth and Drinkstone, *H. & S.*:—Horringer, *Sk. ms.*:—Dalham, *Rev. F. Tearle*:—Hinderclay, *fide C.B.*

2. Cockfield, *C.B.*:—Hitcham, *Hb. Hens.*:—Thurlow, *Hb. F.*:—Rede, *Hb. Turn.*:—Sudbury, *Fulcher*:—Railway-

cutting, Clare, *J.F.W.*:—Naughton, *H. & S.*:—near Poslingford, *Dale*.

3. Bungay, *Stock*:—St. Margarets, *Holmes*:—Oulton and Flixton, *H. & S.*:—Brampton, *F. Turner*:—Corton, *Hb. Salm*.

4. Westleton Decoy || :—Gt. Glemham, *E.N.B.*:—Huntingfield, *Holland & Ms. Davy*:—Burgate, *C. J. Ashfield*:—Halesworth, *Miss Uthoff*:—Yoxford, *Davy*:—Framlingham, *Crabbe*:—Weybread, *H.B.C.*:—Middleton, *F. Spalding*:—Aspall, *Mrs. Preston*:—Wetheringsett, *Hb. Peck*:—Mendlesham, *Hb. Salm*.

5. Otley, *E.N.B.*:—Gt. Bealings, *Moor*:—Grundisburgh, *T.H.*:—Baylham, *Trimmer*:—Hemingstone, *T.B.*:—Ashbocking, *F.C.S.*:—Gosbeck, *F. Fox*:—Bramford, *Harward*:—Ipswich, *Miller*:—Woodbridge, *Hb. Ly*.

Earliest record 1690. *Dale*.

[2. *O. arachnites*, *Reichard*. *Late Spider Orchis*.

Bab. Man. 347. Hook. St. Fl. 392.

Herbaceous perennial; on chalky pastures.

April to June.

1. Near Bury, *Eng. Fl.* Supposed to be a mistake, *H. C. Watson*, 1800.]

3. *O. aranifera*, *Huds.* *Spider Orchis*.

Bab. Man. 347, 8. Hook. St. Fl. 392. H. & S. 85. Hist. Bury, Top. Bot. Suff. E. and W.

Herbaceous perennial; on chalky soil; rare. Apr., May.

1. Westley Bottom; Gt. & Lit. Saxham; near Sicklesmere, *Sir T. G. Cullum*:—Pastures about Ickworth and Kennett, *H. & S.*

2. Pastures at Chevington, *H. & S.*

Earliest record 1775. *Sir J. Cullum*.

4. *O. muscifera*, *Huds.* *Fly Orchis*.

Bab. Man. 348. Hook. St. Fl. 393. H. & S. 85. Hist. Fram. Hist. Bury. Top. Bot. Suff. E. and W. Galp. 106.

Herbaceous perennial; in chalky thickets and pastures.

May, June.

1. Near Bury, *Sir T. G. Cullum*:—Hunston and Ickworth, *Hb. Rk.*:—Pakenham, *Hbb. Cas. & Dun.*:—Rattles-

den, *Mrs. Parker* :—Ixworth, *Mrs. Littlewood* :—Thurston, *H. & S.* :—Ampton, *Rev. A. L. Williams*.

2. Bull's Wood, Thorpe, Cockfield ||, *C.B.* :—Poslingford, *Dale in Ray* :—Melford and Clare, *J.F.W.* :—Hitcham, *Prof. Hens.* :—Rookseye Green, *Dr. White* :—Chevington, *Hb. Sk.* :—Polstead, *F. Spalding* :—Naughton, *H. & S.*

3. All Saints, Southelmham, *H.B.C.* :—Bungay, *G. Fitt?* in *Hb. Geld.*

4. Gt. Glemham, *Crabbe* :—Burgate, *C. J. Ashfield* :—Aspall, *Mrs. Preston*.

5. Alexander's Farm, Burstall, and Sproughton, *Dr. Taylor* :—Baylham, *Miss A. Turner*, *Hb. F.* :—Barking, *T.B.* :—Gosbeck, *F. Fox* :—Needham Market, *E. Clowes* :—Woodbridge, *Hb. Ly.*

Earliest record 1690. Dale.

Herminium, *R. Brown.*

1. *H. Monorchis*, *R. Brown.* *Musk Orchis.*

Bab. Man. 348. Hook. St. Fl. 393. H. & S. 85. Hist. Bury.
Top. Bot. Suff. E. and W.

Herbaceous perennial; on chalky soil; rare.

June, July.

1. In a chalk-pit near Sicklesmere and at Lit. Saxham, *Sir T. G. Cullum* :—Bury, *Winch.*

Earliest record 1779. Sir T. G. Cullum.

Spiranthes, *Rich.*

1. *S. autumnalis*, *Rich.* *Lady's Tresses.*

Bab. Man. 348. Hook. St. Fl. 386. H. & S. 84. Hist. Fram.
Hist. Bury. Top. Bot. Suff. E. and W. Galp. 105.

Small herbaceous perennial; in chalky or gravelly pastures.

August, September.

1. Euston Park ||, *Hb. F.* :—Haughley Park, *Hb. Rk.* :—Ickworth, *Hb. Sk.* :—Woolpit, *D. Parker* :—Mildenhall, *Sir C.J.F.B.* :—Dalham, *Rev. F. Tearle* :—Shelland Green, *J. Rasor* :—near Felsham Wood, *Dr. White* :—on the turf between Hawstead and Whepstead, *Sir T. G. Cullum* :—Gazeley, *E. Sk.* :—Bradfield, *Rev. P. Lathbury*.

2. Cockfield ||, *W.J.* :—Sudbury, *J.S.H.* :—Groton, *H. & S.* :—Clare, *Ger.*

3. Bungay, *Stock* :—St. Margarets & All Saints (E.A.H).

and Flixton, *Galp* :—on the lawn, Frostenden Grove, *Rev. E. L. Hickling*.

4. Lit. Glemham, *E.N.B.* :—near Easton & Cranford, *Crabbe* :—Wortham Ling, *C. J. Ashfield* :—Saxmundham, *Mrs. Toller*.

Earliest record 1597. *Gerarde*.

Listera, R. Brown.

1. *L. ovata, R. Brown.* *Tway-blade.*

Bab. Man. 349. Hook. St. Fl. 385. H. & S. 83. Hist. Fram.
Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 104.

Herbaceous perennial ; in woods and fens. May, June.
Frequent in all the districts. Abnormal form with four
leaves from Burgate Wood || 1885.

Earliest record 1773. *Sir J. Cullum*.

Neottia, Linn.

1. *N. Nidus-avis. Rich.* *Bird's-nest Orchis.*

Bab. Man. 349. Hook. St. Fl. 385. H. & S. 83. Hist. Fram.
Hist. Bury. Top. Bot. Suff. E. and W.

Herbaceous perennial ; leafless ; in shady woods.

June.

1. Ixworth Thorpe :—Stowlangtoft, *Hb. Rk.* :—The
Link ; Woods at Rushbrooke, Gt. and Lit. Saxham, *Sir T.
G. Cullum* :—Pakenham, *Hb. Cas.* :—Woolpit and Drink-
stone, *F.* :—Rattlesden, *Mrs. Parker* :—Onehouse, *Rev. R.
Forby* :—Hardwick and Felsham Wood, *Sk.ms.* :—Fakenham,
Blk. in Hb. Salm.

2. Nayland :—Hitcham, *Prof. Hens.* :—Cockfield ||,
W.J. :—Trundley Wood, Gt Thurlow, *Hb. F.* :—Wiston,
Gray :—Whepstead, *C.B.*

3. Chediston :—Frostenden Grove, *Rev. E. L. Hickling*.

4. Burgate Wood, *C. J. Ashfield* :—Gt. Glemham,
E.N.B. :—in the way to Easton ; Parham, *Crabbe* :—Dars-
ham, *F. Spalding* :—Redgrave, *Collins*.

5. Aldeburgh, *Thos. Martyn* :—Stutton, *Sir C.J.F.B.* :
Barking, *T.B.* :—Gosbeck, *F. Fox* :—Needham Market, *E.
Clowes*.

Earliest record 1763. *T. Martyn*.

Epipactis, *Rich.*

1. *E. latifolia*, *All.* *Broad-leaved Helleborine.*
 Bab. Man. 349, 50. Hook. St. Fl. 388. H. & S. 83. Top. Bot. Suff. E. and W. Galp. 105.
 Herbaceous perennial; in woods. July, August.
 1. Sapiston Grove; Coney Weston:—Fakenham ||,
R. B. French in Hb. F.
 2. Cockfield, *C.B.*
 3. Woods, North Cove, *Holmes*:—Flixton, *Hb. Sk.*:
 —Bungay, *Paget in Hb. Geld.*
 4. Heveningham, *Ms. Davy.*
 Earliest record 1562. Dr. W. Turner.

5. *E. palustris*, *Sw.* *Marsh Helleborine.*
 Bab. Man. 350. Hook. St. Fl. 388. H. & S. 83. Hist. Yarm.
 Hist. Bury. Top. Bot. Suff. E. and W.
 Herbaceous perennial; in bogs and fens. July, Aug.
 1. Hopton Fen ||; Coney and Market Weston, and
 Thelnetham Fens:—Lackford Bog, *Hbb. Blk. & Rk.*:—Tud-
 denham Common, *Hb. Sk.*:—‘Undby Common, between
 Mildenhall and Lakenheath,’ *Sir C.J.F.B.*
 3. North Cove and Barnby, *Holmes*:—Breydon Water,
Phyt. 1862:—Lowestoft and Bungay, *H. & S.*
 4. Redgrave Fen:—Wortham, *Collins.*
 Earliest record 1804. Sir T. G. Cullum.

Cephalanthera, *Rich.*

[*C. ensifolia*, *Rich.* *Serapias longifolia*, *Huds.*, is given in *B.G.* as a Suffolk plant; ‘about Bury, *Sir T. G. Cullum.*’ A second station at foot of Bungay Bath Hills, is in Norfolk. 1804.]

Malaxis, *Sw.*

1. *M. paludosa*, *Sw.* *Bog Orchis.*
 Bab. Man. 351, 2. Hook. St. Fl. 384. H. & S. 83. Hist. Yarm.
 Top. Bot. Suff. E.
 Herbaceous perennial; in bogs; rare. Aug., Sep.
 Specimen in *Hb. Sk.*, without locality, from *F. K. Eagle.*
 3. Belton Common, *D. Turner*:—Ashby Warren, *Rev. G. R. Leathes in Paget*:—Herringfleet, *Leathes in Hb. Rk.*

4. Redgrave Fen, *Collins*.

Earliest notice 1834. Rev. G. R. Leathes.

*Sturmia, Reichen.*1. *S. Læselii*, *Reich.* *Liparis Læselii*, Rich.
*Two-leaved Liparis.*Bab. Man. 352. Hook. St. Fl. 384. H. & S. 83. Hist. Bury.
Top. Bot. Suff. W.1. Thelnetham Fen || :—Tuddenham, *Sir T. G. Cullum*,
Hb. Sk., & *Phyt.*, *fide Sir C.J.F.B.*, coll. *E. Skepper*. :—La-
kenheath, *H. & S.*4. Redgrave Fen ||, *C. J. Ashfield*.

Earliest notice 1804. Sir T. G. Cullum.

IRIDACEÆ.

*Iris, Linn.*1. *I. Pseudacorus*, *Linn.* *Yellow Flag.*Bab. Man. 353. Hook. St. Fl. 397, 8. H. & S. 86. Hist. Yarm.
Top. Bot. Suff. E. and W. Hist. Wher. Galp. 107.

Herbaceous perennial ; by ditches and in wet places.

Common in all the districts.

June, July.

a. I. Pseuducorus, *Linn.*

1. Ampton || ; Knettishall.

b. I. acoriformis, *Bor.*

Bab. Man. 353. Hook. St. Fl. 398.

1. Boggy pasture at Santon Downham ; Troston ; Ix-
worth Thorpe ||.

4. Hoxne.

5. Woodbridge, *Hb. Ly.**1. Bastardi*, *Bor.*

Bab. Man. 353. Hook. St. Fl. 398.

1. Knettishall Common ||. 2. Lit. Bradley, *Hb. F.*

Earliest record 1773. Sir J. Cullum.

2. *I. foetidissima*, *Linn.* *Gladwin. Fetid Iris.*
*Roast-beef Plant.*Bab. Man. 353. Hook. St. Fl. 398. H. & S. 86. Hist. Bury.
Top. Bot. Suff. E. and W. Galp. 106.

Herbaceous perennial ; in woods and thickets.

May to July.

1. Hawstead, *J. Gedge*:—near Bury, *Sir T. G. Cullum*.
 2. Hitcham, *Hb. Hens.*:—Long Melford ||, *J.F.W.*:
 —Naughton, *H. & S.*:—Thrifty Wood, Lawshall, *Sk. ms.*:—
 Nedging, *Rev. T. S. J. Harris*.

3. Bungay, *Stock*:—Flixton, *H.B.C.*

4. Rishangles and Brockford, *C. W. Peck*:—Gt. Glemham and Friston, *E.N.B.*:—Blythburgh, Letheringham, Thorington and Sibton, *Ms. Davy*:—On clay-banks and ditches about Easton, on way to Parham, *Crabbe*.

5. Boulge, *Moor*:—Hemingstone, *T.B.*:—Offton, *H. & S.*

Earliest record 1804. Sir T. G. Cullum.

Crocus, *Linn.*

1. *C. vernus*, *Willd.*

Spring Crocus.

Bab. Man. 354. Hook. St. Fl. 397.

Herbaceous perennial; in meadows.

March.

1. Barton, *Hb. Cas. & Ms. Davy*.

3. 'The Osier Ground at Beccles, but sparingly,'
Crabbe.

5. In a meadow at Grundisburgh, *F. Fox*.

Earliest record 1805. Rev. G. Crabbe.

[*C. argenteus*, *Sal.* *C. biflorus*, *Mill.* *Silvery Crocus.*

Bab. Man. 354,5. Hook. St. Fl. App. 534.

Herbaceous perennial, from former cultivation. March.

1. 'On the site of an old garden at Barton ||, Suff.,'

Bab. Man. In Hbb. Blk., Sk., & Ly. Has been plentiful as long as the late Sir C. J. F. Bunbury and his father have known the place. 1830? Sir C. J. F. Bunbury.]

[*C. aureus*, *Sibth.*

Golden Crocus.

Bab. Man. 355. Hook. St. Fl. App. 534.

Herbaceous perennial, from former cultivation. March.

1. Barton ||; 'with the preceding,' *Bab. Man. In Hbb. Blk., Cas., Sk., & Ly.*

See remarks on preceding plant. 1830? Sir C. J. F. Bunbury.]

AMARYLLIDACEÆ.

Narcissus, Linn.

†1. *N. biflorus*, Curt. *Two-flowered Narcissus.*

Bab. Man. 355. Hook. St. Fl. 399. Galp. 107.

Herbaceous perennial ; in sandy fields. April, May.

1. Bury, *Hb. Sk.* :—Mildenhall, *Sir C.J.F.B.* :—Ditch in Rattlesden, *Mrs. Parker* ; likely a garden outcast :—Hengrave, *G.R.L. in Hb. Salm.*

2. Hitcham, *Prof. Hens.*

3. St. Margarets, 'From time immemorial,' *Holmes* :—Oulton, *McAub.*

5. Barking Wood, *Hb. Jeffes.*

Earliest notice 1824. Sir C. J. F. Bunbury.

[2. *N. poeticus*, Linn. *Poetic Narcissus.*

Bab. Man. 355. Hook. St. Fl. App. 534.

Herbaceous perennial ; usually a garden stray. May.

1. Bury, *Hb. Sk.* 3. Cove, *W. Jacobson.*

5. Hemley, *Holmes.*

Earliest notice 1773. Sir J. Cullum.]

[*N. incomparabilis*, Mill. *N. lobularis*, Schult. 'In a paddock at the Manor House, &c., Mildenhall, *Sir C.J.F.B.* Of course only a garden stray.' 1824. Sir C. J. F. Bunbury.]

3. *N. Pseudo-narcissus*, Linn. *Daffodil.*

Bab. Man. 355. Hook. St. Fl. 399. H. & S. 86. Hist. Yarm.

Top. Bot. Suff. E. and W.

Herbaceous perennial ; in woods and pastures.

March, April.

1. Fakenham Wood || :—Gt. Welnetham, *Hb. Sk.* :—Rougham, *W.J.* :—Tostock, *F.* :—Woolpit, *Mrs. Parker* :—Horringer and Pakenham Wood, *H. & S.* :—Bury, *Sk. ms.*

2. Hitcham, *Hb. Hens.* :—Rede, *Hb. Turn.* :—Nayland, *Gray.*

3. Herringfleet, *D. Turner* :—Oulton, *McAub.*

4. Saxmundham, *H. & S.* ; Yoxford ; Brick-kiln Farm, Westleton, *F. Spalding* :—Rishangles, *Hb. Peck* :—Rickingham, *Collins* :—Sternfield ; Knodishall, *Mrs. Toller.*

5. Creeting, *T.B.* :—Great Bealings, *Moor* :—Little Blakenham, *Haward* :—a few roots at Bentley and Wher-

stead in woods, *Miller* :—near Campsey Ash.
Earliest record 1775. Sir J. Cullum.

Leucojum, *Linn.*

1. *L. æstivum*, *Linn.* *Summer Snowflake.*
 Bab. Man. 356. Hook. St. Fl. 400. H. & S. 86.
 Herbaceous perennial; pastures. May.
 5. 'A troublesome weed in pastures at Little Stonham,'
Mrs. Cobbold :—Sp. in *Hb. Borrer* at Kew, *A.B.* :—near Gt.
 Bealings' Church, *F. Spalding*.
 Earliest record 1800. *Mrs. Cobbold*.

Galanthus, *Linn.*

1. *G. nivalis*, *Linn.* *Snowdrop.*
 Bab. Man. 356. Hook. St. Fl. 400. H. & S. 86. Galp. 107.
 Herbaceous perennial; in thickets; likely a garden
 stray. February, March.
 1. Tostock, *F.* :—Casual plants at Sapiston, Troston,
 Livermere and Ixworth.
 3. Flixton Long Plantation, *Holmes* :—Oulton, *McAub.*
 4. Hedges at Laxfield, in the greatest profusion, *D.*
Turner :—Yoxford; Middleton; Westleton, *Davy* :—Theber-
 ton, *F. Spalding* :—Weybread, *Galp.*
 5. Coddendam, *Miss Jeffes*.
 Earliest record 1805. *Davy* and Dawson *Turner*.

ALISMACEÆ.

Alisma, *Linn.*

1. *A. Plantago*, *Linn.* *Water Plantain.*
 Bab. Man. 357. Hook. St. Fl. 427. H. & S. 82. Hist. Yarm.
 Top. Bot. Suff. E. and W. Galp. 112.
 Herbaceous perennial; at the side of rivers and in ponds
 and ditches. July, August.
 Frequent in all the districts.
 b. *A. lanceolatum*, *With.*
 Bab. Man. 357. Hook. St. Fl. 427.
 1. Honington ||; Ixworth Thorpe; Sapiston; Thel-
 netham; Cavenham; Santon Downham; Mildenhall :—

Hawstead, *E. S. Marshall*.

2. Nayland and Acton.

3. Beccles ; Bungay and Belton :—Oulton, *McAub*.

Earliest record 1773. Sir J. Cullum.

2. *A. ranunculoides*, *Linn.* *Lesser Water Plantain*.

Bab. Man. 357,8. Hook. St. Fl. 427. H. & S. 82. Hist. Fram.

Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 112.

Herbaceous perennial ; edge of lakes, pools and ditches.

June, July.

1. Mildenhall || ; Lakenheath ; Ixworth Thorpe ; Sapiston ; Market Weston :—Pakenham, *Hb. Cas.* :—Tuddenham, *Hb. Sk.* :—Eriswell, *Sir C.J.F.B.* :—Lackford Bridge and Livermere Park, *Sir T. G. Cullum* :—Ampton, *Gray* :—Coney Weston, *E.F.L.*

3. Bungay ; Carlton Colville :—Lowestoft, *Dr. Trimen* :—Oulton, *McAub* :—Lound and Hopton, *Wigg* :—Somerleyton, *H. & S.* :—Fritton, *Sk.ms.* :—Barsham Marshes, *R. E. Leach* :—Belton, *J. Priest in Hb. Geld.*

4. Framlingham, *Crabbe* :—Stratford St. Andrews, *E.N.B.* :—Wingfield, *Holmes* :—Redgrave Fen, *C. J. Ashfield* :—Hoxne, *Galp.*

Earliest record 1773. Sir J. Cullum.

Actinocarpus, *R. Brown*.

1. *A. Damasonium*, *R. Brown.* *Damasonium*

stellatum, *Pers.* *Thrumwort.*

Bab. Man. 358. Hook. St. Fl. 427,8. H. & S. 82. Top. Bot.

Suff. E. ?

Herbaceous perennial ; in ponds and ditches ; rare.

June, July.

4. Framlingham, *Crabbe*. Now extinct.

Earliest notice 1798. Rev. G. Crabbe.

Sagittaria, *Linn.*

1. *S. sagittifolia*, *Linn.* *Arrowhead.*

Bab. Man. 358. Hook. St. Fl. 428. H. & S. 82. Hist. Fram.

Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 112.

Herbaceous perennial ; in rivers, ponds and ditches.

August.

1. Bury ; Ixworth ; Bardwell ; Sapiston ; Honington || ; Fakenham ; Euston ; Knettishall ; West Stow ; Barton Mills ; Lakenheath :—Mildenhall, *Sir C.J.F.B.* :—Stowlangtoft, *Rk.* :—Tuddenham, *E. Sk.*

2. Nayland and Stoke :—Long Melford, *C.B.* :—Kersey, *E.F.L.*

3. Beccles; Kessingland; Gorleston :—Bungay, *Stock* :—Oulton, *E. Sk.* :—Worlingham, *H. G. Glasspoole in Hb. Geld.*

4. Stuston :—Oakley, *Hb. Cas.* :—Framlingham, *Crabbe* :—Gt. Glemham; Snape and Farnham, *E.N.B.*

5. Ipswich, *Ips. Portf.* :—Barking, *T.B.* :—Baylham, *F. Fox* :—Needham Market, *E. Clowes* :—The Gipping, *Miller* :—Ufford, *Ms. Davy*.

Earliest record 1773. Sir J. Cullum.

Butomus, Linn.

1. *B. umbellatus*, Linn. *Flowering Rush.*

Bab. Man. 358. Hook. St. Fl. 428. H. & S. 81,2. Hist. Fram. Top. Bot. Suff. E. and W. Galp. 112.

Herbaceous perennial; in rivers, ponds and ditches.

June, July.

1. Fakenham ||; Honington; Sapiston; Bardwell; Norton; Thelnetham; Livermere :—Bury; Stowlangtoft, *Hb. Rk.* :—Hawstead, *Hb. Ly.* :—Mildenhall Fens, *Sir C.J. F.B.* :—The River at Shelland, near Stowmarket.

2. Nayland :—Cockfield, *W.J.* :—Sudbury, *J.S.H.* :—Melford Park, *J.F.W.* :—Hadleigh, *F. Spalding* :—Clare, *C.B.*

3. Beccles; Worlingham :—Bungay, *Woodward* :—Waveney Ditches, *Holmes* :—Oulton, *McAub.* :—Burgh Castle, *H. G. Glasspoole in Hb. Geld.*

4. Blythburgh :—Framlingham, *Crabbe & E.N.B.* :—Sternfield, *E.N.B.* :—Hoxne; Mendham, *Galp.* :—Westleton, *Ms. Davy* :—Oakley, *Collins* :—plentiful at Langham Bridge, between Farnham and Blaxhall, *E.N.B.*

5. The Ffynn, Martlesham Bridge, *Moor* :—Woodbridge, *H.M.S.* :—Ufford, *F. Spalding* :—Barking, *T.B.* :—Burstall, *F. Fox* :—Bramford; Ipswich, *W.L.N.* :—Sproughton, *Howard* :—Blaxhall, *E.N.B.* :—The Gipping, *Miller*.

Earliest record 1773. Sir J. Cullum.

Triglochin, Linn.

1. *T. maritimum*, Linn. *Sea Arrow Grass.*

Bab. Man. 359. Hook. St. Fl. 430. H. & S. 82. Hist. Yarm. Top. Bot. Suff. E.

Herbaceous perennial ; in muddy salt marshes.

July, August.

3. Burgh Castle ; Breydon Water ; Benacre :—Lowestoft, *Hb. Sk.* :—Southwold, *Hb. Ly.*

4. Dunwich || ; Blythburgh ; Walberswick ; Thorpe.

5. Walton ; Stutton ; Chelmondiston :—Aldeburgh, *Hb. F.* :—Catawade, *Hb. Mg.* :—Orford, *E.N.B.* :—Rams-holt, *Sir J. Cullum.*

Earliest record 1773. Sir J. Cullum.

2. *T. palustre*, *Linn.*

Marsh Arrow Grass.

Bab. Man. 359. Hook. St. Fl. 430.

H. & S. 82. Hist. Fram.

Hist. Yarm. Top. Bot. Suff. E. and W.

Galp. 112.

Herbaceous perennial ; in marshes.

June, July.

Frequent in all the districts.

Earliest record 1773. Sir J. Cullum.

ASPARAGACEÆ.

Asparagus, *Linn.*

1. *A. officinalis*,

Common Asparagus.

Bab. Man. 359,60. Hook. St. Fl. 403.

H. & S. 87. Top. Bot.

Suff. E.

Herbaceous perennial ; sea coast ; rare.

August.

a. *A. prostratus*, Dun. Native of Cornwall and Wales.

b. *A. campestris*. An occasional escape from cultivation.

2. Cockfield, *W.J.*

3. In a gravel-pit at Bradwell || :—Oulton, *McAub.* :—Ellough, *Ms. Davy.*

4. Thorpe, *Hb. F.* :—Hedge-bank, Weybread, *H.B.C.*

5. Aldeburgh, *Moor !* :—Orford, *F. Spalding* :—Felix-stowe, *Haward.*

Earliest record 1773. Sir J. Cullum.

Convallaria, *Linn.*

1. *C. majalis*, *Linn.*

Lily of the Valley.

Bab. Man. 360.

Hook. St. Fl. 405.

H. & S. 87.

Hist. Bury.

Top. Bot. Suff. W.

Herbaceous perennial ; in woods.

May.

1. Felsham Wood, *C.B.* :—Woolpit Wood ||, *Hbb. Blk.*

& Dun. :—Clopton Grove, *F.* :—Shelland, *Mr. Denny* :—

Onehouse Wood, *Mrs. Terry* :—near Haughley Park, *H. & S.*

2. Sudbury, *J.S.H.* 3. Oulton, *McAub.*
 5. Woods at Bentley, *F. Spalding & Miller.*
 Earliest record 1773. Sir J. Cullum.

Polygonatum, *Tourn.*

3. *P. multiflorum*, *All.* *Solomon's Seal.*
 Bab. Man. 360. Hook. St. Fl. 404. H. & S. 87. Hist. Yarm.
 Top. Bot. Suff. E.
 Herbaceous perennial; in woods and shady places. May.
 3. Clay-pit, Gorleston ||, *Hb. Blk.* :—Bradwell, in the
 Lady Pits, *Wigg.*
 4. Sternfield, *Rev. J. Longe.*
 Earliest record 1800. *Wigg.*

Ruscus, *Linn.*

1. *R. aculeatus*, *Linn.* *Butcher's Broom.*
 Bab. Man. 360. Hook. St. Fl. 403. H. & S. 87. Top. Bot.
 Suff. E. and W.
 Shrubby evergreen perennial; in thickets and shady
 places. March, April.
 1. Coney Weston and Troston; probably introduced
 in both localities.
 2. Nayland, *Gray* :—Somerton.
 3. Heath near Lowestoft, *Woodward* :—Oulton, *McAub.*
 4. Botesdale :—Snape, *E.N.B.* :—Dunwich, *Ms. Davy.*
 5. Stutton || :—Holbrooke, *Miss Lechmere in Hb. F.* :
 —Bentley, *H. & S.* :—Wherstead, *Miller* :—Iken, *Mrs. Toller.*
 Earliest record 1773. Sir J. Cullum.

LILIACEÆ.

Tulipa, *Linn.*

1. *T. silvestris*, *Linn.* *Wild Tulip.*
 Bab. Man. 362. Hook. St. Fl. 410, 11. H. & S. 87. Hist. Bury.
 Galp. 109.
 Herbaceous perennial; in chalk-pits and old pastures.
April, May.
 1 'Formerly in the old chalk-pits near St. Peter's
 barn, Bury,' *Sir T. G. Cullum* :—Bury, || *Hbb. Blk. & Cas.* :—
 'Barton Park, rarely flowering, though the leaves come up'

in great plenty,' *Sir C.J.F.B.* :—Hunston, *Mrs. Gibson* :—Rougham, *Dr. Taylor*.

2. Cockfield! *C.B.*

4. Sternfield, *Rev. J. Longe* :—Weybread, *H.B.C.* :—meadow near Darsham Hall, *F. Spalding*.

5. In an orchard at Nettlestead Hall, *C. W. Peck*.

Earliest record 1800. *Sir T. G. Cullum*.

Fritillaria, *Linn.*

1. *F. Meleagris*, *Linn.* *Fritillary. Snake's-head.*

Bab. Man. 362. *Hook. St. Fl.* 410. *H. & S.* 87. *Hist. Bury.*

Top. Bot. Suff. E. and W. *Galp.* 109.

Herbaceous perennial; in meadows. May.

1. Tostock, *Hb. F.* :—Hawstead, *Hbb. Blk., Ly. & Sk., Sir J. and T. G. Cullum* :—Woolpit ||, *Hb. F.*

3. St. Margarets and St. Cross, *Holmes*.

4. Sternfield, *Rev. J. Longe* :—Stratford St. Andrew, *E.N.B.* :—meadows near Metfield Rectory, *F. Spalding* :—'About half-a-mile from Laxfield toward Stirrup Street, in a wet meadow in Scare Fen, in great abundance, and in several other pastures within five miles of that spot.' 'Mr. Crowe,' *Dill. Ray in Hort. Ox.* :—Framsden, *T.B.* :—Gipping to Debenham, and Wickham Skeith, *C. W. Peck* :—Worlingworth, *Collins*.

5. Lit. Stonham, *Mrs. Cobbold* :—Mickfield, *Hb. Cas.* :—Ashbocking, *Prof. Cowell* :—Bramford, *F. Fox* :—Berg-holt, *Dr. White*.

Earliest record 1776. *Crowe*.

Lilium, *Linn.*

[*L. Martagon*, *Linn.*

Turk's-cap Lily.

Bab. Man. 362. *Hook. St. Fl.* 410. *Galp.* 109.

Herbaceous perennial; in copses. June, July.

3. In a small plantation between the Church and the Village, Flixton, *H.B.C.* Likely a garden stray.

First notice 1884. *Rev. F. W. Galpin.*]

Ornithogalum, *Linn.*

1. *O. umbellatum*, *Linn.* *Common Star of Bethlehem.*

Bab. Man. 363. Hook. St. Fl. 409. H. & S. 88. Hist. Bury.
Galp. 108.

Herbaceous perennial ; in meadows and pastures. May.

1. Honington||; Fakenham; Troston; Culford Heath;
Coney Weston :—Barton, *Hb. Blk.* & *Sir J. Cullum* :—Wals-
ham, *Hb. Dun.* :—Knettishall, *Gray* :—Woolpit, *Mrs. Parker* :
—in a pasture near St. Peter's Barn, Bury; Saxham and
Lakenheath, *H. & S.* :—West Stow, *Hb. Ly.* :—Pakenham,
Hb. Rk. :—Tostock, *J. Rasor* :—‘In a common between Bury
and Ingriff House,’ *Dill. Ray in Hort. Ov.* :—Santon Downham,
in woods, *Sk. ms.* :—Mildenhall, *Sir C.J.F.B.*, naturalized :—
Bardwell, *Blk. in Hb. Salm.*

2. Lit. Thurlow, *Hb. F.* :—Chedburgh, *Miss Bell* :—
Hitcham, *Prof. Hens.* :—Nayland.

3. Hedge at Bungay, *Ashby* :—Hopton Churchyard,
Wigg :—Flixton, *H.B.C.* :—Oulton, *McAub.*

4. Weybread, *H.B.C.* :—Middleton, *F. Spalding* :—
Wetheringsett, *C. W. Peck.*

5. Lit. Stonham, *Mrs. Cobbold* :—Needham Market,
E. Clowes :—Coddendam, *F. Fox.*

Earliest record 1772. Sir J. Cullum.

†3. *O. nutans*, Linn. *Nodding Star of Bethlehem.*

Bab. Man. 363. Hook. St. Fl. H. & S. 88. Hist. Fram.
Hist. Bury.

Herbaceous perennial ; in fields ; rare. April, May.

1. Plentiful in the high fields near Bury, *Rev. G. R.*
Leathes :—‘Meadow nearly opposite the chalk-pits, in Risby
Gate Street, Bury,’ *Sir T. G. Cullum* :—Woolpit, *Hb. F.* :—
Haughley, *Hb. Rk.* :—Euston, *Hb. FitzR.* :—Walsham, *Hb.*
Dun. :—Wetherden, *F.* :—Drinkstone, *Mrs. Terry* :—Barton,
Sir C.J.F.B. :—Rougham, *F. Sk.* :—Mildenhall, *Sir C.J.F.B.*

2. Stoke-by-Nayland, *Gray* :—Sudbury, *J.S.H.*

3. Oulton, *McAub.*

4. Yoxford, *Hb. Borrer* :—‘Frequent in Orchards,
Churchyards, and about towns and villages near Framling-
ham,’ *Crabbe* :—Gt. Glemham, *E.N.B.* :—Middleton, *Davy* :
—Wetheringsett, *Hb. Peck* :—Westleton; Easton; near
Hacheston, *Ms. Davy.*

5. Gt. Bealings, *Moor* :—Bergholt, *H. & S.*

Earliest record 1776. Sir J. Cullum.

Gagea, *Saltsb.*

1. *G. lutea*, *Ker.* *G. fascicularis*, *Salisb.*
Yellow Star of Bethlehem.

Bab. Man. 363. Hook. St. Fl. 411. H. & S. Galp. 128.
 Top. Bot. Suff. E.

Herbaceous perennial ; in woods and pastures.

March, April.

3. Shipmeadow, *Ashby*, (wrongly supposed to have been lost) :—‘ Near Shipmeadow Church in low road to Bungay,’ 1834, *Holmes* ; *R. E. Leach*, 1889.

4. Gt. Glemham ||, *E.N.B.*

5. Sproughton Wood and Waller’s Grove, Ipswich, *Hb. Cas.* :—Playford, plentiful, *Mrs. Biddell* :—pasture near Woodbridge, *E. G. Varenne* :—Bramford, *Dr. Taylor*.

Earliest record 1805. Dawson Turner.

Allium, *Linn.*

3. *A. vineale*, *Linn.* *Crow-Garlic.*

Bab. Man. 365. Hook. St. Fl. 405,6. H. & S. 88. Top. Bot. Suff. E. and W.

Herbaceous perennial ; in fields.

July.

1. Pasture near St. Peter’s Barn, Bury, *Hb. Sk.* :—by the roadside between Lakenheath and Brandon, *A.B.* :—meadow at Sicklesmere ; Cherry-tree Road, Gt. Livermere ; Icklingham, *Sk. ms.* :—Barton Mills ||, *Hb. F.* :—Barnham, *C.B.*

2. Hitcham, *Hb. Hens.*

4. Leiston ||, *T.W.G.*

5. Near the Orwell, *Ips. Fl.* :—Creting, *Miss Jeffes*.

Earliest record 1850. Prof. Henslow.

5. *A. oleraceum*, *Linn.* *Field Garlic.*

Bab. Man. 365,6. Hook. St. Fl. 407. H. & S. 88. Top. Bot. Suff. W.

Herbaceous perennial ; in the borders of fields.

July, August.

1. Lakenheath, *Rev. G. R. Leathes*, *Hb. Borrer*, *Kew*.

2. Claywell Farm, Hadleigh. ‘ Has grown in one field for many years. My worthy old friend, Mr. Petherick, the steward, told me that it is a great nuisance in the corn ; and he has been obliged to take less than the market price for

wheat, on account of the seeds imparting a flavour of onion to the flour,' *F. Spalding*.

Earliest record 1830? *Rev. G. R. Leathes*.

9. *A. ursinum*, *Linn.*

Ramsons.

Bab. Man. 366. Hook. St. Fl. 407. H. & S. 88. Hist. Wher.

Top. Bot. Suff. E. and W. Galp. 108.

Herbaceous perennial; in woods and hedges.

Occurs in all the districts.

May, June.

Earliest notice 1798. *Rev. G. Crabbe*.

[*A. ambiguum*, *Sm.*

A casual at Eye Castle Hill,

Bab. Man.

Specimen seen in Cambridge Herbarium.

Prof. Babington.]

Endymion, *Dumort.*

1. *E. nutans*, *Dumort.*

Scilla nutans, *Sm.*

English Bluebell.

Bab. Man. 367. Hook. St. Fl. 408, 9. H. & S. 88. Hist. Yarm.

Hist. Wher. Top. Bot. Suff. E. and W. Galp. 108.

Herbaceous perennial; in woods and copses.

May.

Frequent in all the districts.

Earliest record 1773. *Sir J. Cullum*.

Muscari, *Tourn.*

1. *M. racemosum*, *Mill.*

Grape Hyacinth.

Bab. Man. 367. Hook. St. Fl. 408. H. & S. 88. Hist. Bury.

Top. Bot. Suff. E. and W.

Herbaceous perennial; in fallows and plantations; local. April, May.

1. Fields at Hengrave, and the plantations at Cavenham, *Hist. Bury* :—Honington ||; Fakenham :—Cavenham Heath, *C.B.*, & *Hbb. Blk.*, *Rk. & Sk.* :—Pakenham, *Hb. Dun.* :—Thurston, *Hb. Cas.* :—near Tuddenham; Lakenheath, in fields, Ap. 1863, *H. Rys.* & *Hb. F.* :—Paddock, Mildenhall, *Sir C.J.F.B.* :—Roadside near Higham Station, and sparingly in Mr. Lee's Woods, Bury, *H. & S.* :—strip of wood between Bury and Risby, *H. R. Barker* :—Saxham, *Hb. Ly.* :—Barrow Bottom, *Blk. in Hb. Salm.*

4. Hedge-banks, Sweffling, *Miss Rouse*, *fide A.B.* Likely casual.

NOTE.—' *M. racemosum* used to be plentiful in the Kenet and Kentford lanes 20 years ago, but I have not noticed

a single plant for the last 12 years,' *F. Tearle*.
Earliest record 1776. *Sir J. Cullum*.

MELANTHACEÆ.

Colchicum, *Linn.*

1. *C. autumnale*, *Linn.* *Meadow Saffron.*

Bab. Man. 368. Hook. St. Fl. 412. H. & S. 89. Hist. Fram.
Hist. Bury. Top. Bot. Suff. E. and W. Galp. 109.

Herbaceous perennial; in meadows. Aug. to Oct.

1. 'In the large meadow on the S.E. of Hawstead Church,' *Sir J. Cullum*:—Barton, *Hbb. Blk., Rk. & Sk.*:—Drinkstone Green, *Hb. F.*:—Walsham, *Hb. Dun.*:—Little Saxham, *H. & S.*:—between Nowton and Sicklesmere, *Hb. Ly.*:—Woolpit, *Mrs. Parker*:—Bury, *Sir J. E. Smith*:—meadows at Bradfield, *F. Spalding*.

2. Hitcham, *Hb. Hens.*:—Chevington, *Hb. Turn.*:—Wickhambrook, *Rev. F. Tearle*:—Kersey, *F. Spalding*:—Bildeston, *H. & S.*

3. Bungay, *Stock*:—Barsham, *Holmes*:—St. Cross, *H.B.C.*:—Rumburgh, *H. & S.*:—Oulton, *McAub.*

4. Benhall, *E.N.B.*:—Fressingfield, *A.B.*:—Easton and Soham, *Crabbe*:—Framlingham, *T.W.G.*:—Laxfield, *Davy*:—Bedingfield and Mendlesham, *C. W. Peck*:—Crettingham, *Morse*:—Wortham, *Collins*:—Finningham, *Hb. Salm.*:—Marlesford, *Mrs. Toller*.

5. Charsfield, *Hb. Cas.*:—Ashbocking, *Prof. Cowell*:—Gt. Bealings, *Moor*:—Grundisburgh, *F. Fox*:—Burgh, *T.H.*:—Little Stonham, *Sir J. E. Smith*:—Debach, *E.N.B.*:—Shelley, *F. Spalding*:—Bergholt, *H. & S.*

Earliest record 1773. *Sir J. Cullum*.

JUNCACEÆ.

Juncus, *Linn.*

1. *J. maritimus*, *Sm.* *Sea Rush.*

Bab. Man. 369. Hook. St. Fl. 415. H. & S. 90. Top. Bot. Suff. E.
Herbaceous perennial; in salt marshes. July, Aug.

3. Breydon Water; Benacre and Covehithe; Easton Bavent:—Lowestoft Denes, *Hb. Sk.*

4. Dunwich and Sizewell:—Snape, *H. & S.*

5. Chelmondiston || ; Stutton || ; Catawade ; Walton :
—Felixstowe, *C.B.* :—Aldeburgh, *Sir C.J.F.B.* :—Brantham,
Sk. ms.

Earliest notice 1805 ; see note on *J. acutus*.

(2. *J. acutus*, *Linn.* *Sharp Rush.*

Bab. Man. 369. Hook. St. Fl. 415. *H. & S.* 90. Top. Bot. Suff. E.
Herbaceous perennial ; on sandy coasts. June.

5. Salt marshes, Aldeburgh, *Davy*. The only authority
—The locality makes it probable that *L. maritimus* was the
plant seen, which appears to have been a segregate from *J.*
acutus, and was at first distinguished with *b.* subjoined as a
variety. It is likely that *L. maritimus* was intended by Mr.
Davy.)

Earliest record 1805. *Davy*.

3. *J. effusus*, *Linn.* *Soft Rush.*

Bab. Man. 369. Hook. St. Fl. 414. *H. & S.* 89. Hist. Yarm.
Top. Bot. Suff. E. and W. Galp. 110.
Herbaceous perennial ; in watery places. July.
Common in all the districts.

Earliest notice 1834. *Paget*.

4. *J. conglomeratus*, *Linn.* *Common Rush.*

Bab. Man. 369. Hook. St. Fl. 414. *H. & S.* 89. Hist. Yarm.
Top. Bot. Suff. E. and W. Galp. 110.
Herbaceous perennial ; in wet places. July.
Common in all the districts.

Earliest notice 1834. *Paget*.

5. *J. glaucus*, *Sibth.* *Hard Rush.*

Bab. Man. 369. Hook. St. Fl. 414. *H. & S.* 89. Hist. Yarm.
Top. Bot. Suff. E. and W. Galp. 109.
Herbaceous perennial ; in wet places and on commons.
Frequent in all the districts. July.

Earliest notice 1834. *Paget*.

6. *J. diffusus*, *Hoppe.* *Diffuse Rush.*

Bab. Man. 369.70. Hook. St. Fl. 414. Galp. 110. Top. Bot.
Suff. W. Skepper, ms.
Herbaceous perennial ; in moist commons. July, Aug.
1. Wangford || ; Mildenhall. 2. Hitcham, *Prof. Hens.*
3. Flixton, *H.B.C.* :—St. Margarets (*E.A.H.*), *Galp.*

5. *Felixstowe, C.B.*

Earliest notice 1860. Prof. Henslow.

14. *J. obtusiflorus, Ehrh. Blunt-Flowered Jointed Rush.*

Bab. Man. 371. Hook. St. Fl. 417. H. & S. 89. Hist. Yarm.

Top. Bot. Suff. E. and W.

Herbaceous perennial; in marshes. July to Sept.

1. Barnham ||; Hopton ||; Thelnetham; Coney Weston; Market Weston; Ixworth Thorpe; Lakenheath:—Bury, *Hb. Sk.*:—Ixworth, *Hb. Blk.*:—Pakenham Fen, *Hb. Cas.*:—Stowlangtoft, *Hb. Rk.*:—Tostock, *Hb. F.*:—Mildenhall, *Sir C.J.F.B.*:—Fornham, *H. & S.*

2. Hitcham, *Prof. Hens.*

3. Bradwell; Benacre; Beccles:—Breydon Water, *Phyt. 1862*:—Bungay, *H. & S.*:—Lowestoft and Fritton, *Sk. ms.*

4. Redgrave Fen:—Gt. Glemham, *E.N.B.*:—between Thorpe and Aldringham, *Sir C.J.F.B.*:—Snape, *H. & S.*:—Brome Fen, *Dr. Woodward.*

5. Felixstowe, *Purchas*:—Orford; Aldeburgh.

Earliest notice 1834. Paget.

15. *J. acutiflorus, Ehrh. Sharp-Flowered Jointed Rush.*

Bab. Man. 371. Hook. St. Fl. 417. H. & S. 89. Hist. Yarm.

Top. Bot. Suff. E. and W. Galp. 110.

Herbaceous perennial, in bogs and wet pastures.

Common in all the districts. June to August.

Earliest notice 1834. Paget.

16. *J. lamprocarpus, Ehrh. Shining Fruited Jointed Rush.*

Bab. Man. 371. Hook. St. Fl. 418. H. & S. 89. Hist. Yarm.

Top. Bot. Suff. E. and W. Galp. 110.

Herbaceous perennial; in bogs.

July, August.

Common in all the districts.

Earliest notice 1834. Paget.

18. *J. supinus, Mæsch. Lesser Bog Jointed Rush.*

Bab. Man. 32. Hook. St. Fl. 418. H. & S. 90. Hist. Yarm.

Top. Bot. Suff. E. and W.

Herbaceous perennial; in bogs and shallow pools.

June to August.

Inadvertently confounded with *J. capitatus* in *H. & S.*

1. Hinderclay ||:—Broadmere, Troston.

3. Lound; Beccles:—Belton, *Hb. Sk.*:—Lowestoft, *E. Sk.*
 4. Dunwich ||; Walberswick:—Snape, *H. & S.*

c. J. fluitans, Fries.

Lond. Cat. 1439.c.

1. Hinderclay.

3. Belton ||; Beccles; Carlton Colville.

Earliest notice 1773. Sir J. Cullum.

19. *J. squarrosus*, Linn. *Heath Rush.*

Bab. Man. 372. Hook. St. Fl. 418. H. & S. 89. Hist. Yarm.

Top. Bot. Suff. E. and W. Galp. 128.

Herbaceous perennial; on wet heaths. June, July.

1. Knettishall:—Tuddenham *Hbb. Cas. & Sk.*:—near Mildenhall, *Sir C.J.F.B.*:—West Stow, *H. & S.*:—Cavenham Severals; Lakenheath; Santon Downham, *Sk. ms.*

3. Belton ||:—Lowestoft, *Hb. Sk.*:—Bungay, *H. & S.*

4. Dunwich ||; Westleton:—Snape, *E.N.B.*

5. Ipswich, *H. & S.*

Earliest notice 1834. Paget.

20. *J. compressus*, Jacq. *Round Fruited Rush.*

Bab. Man. 372,3. Hook. St. Fl. 417. H. & S. 89. Top. Bot.

Suff. ?

Herbaceous perennial; moist pastures. June to Aug.

1. Edge of Livermere Lake ||; Barnham.

2. Hitcham, *Prof. Hens.*

The other localities given by *H. & S.* likely belong to the following species, and are given under it.

Earliest notice 1853. Prof. Henslow.

21. *J. Gerardi*, Lois. *Gerarde's Rush.*

Bab. Man. 373. Hook. St. Fl. 417. Top. Bot. Suff. E.

Herbaceous perennial; in muddy salt marshes.

June to August.

3. Burgh Castle; Lake Lothing; Benacre; Covehithe:—Lowestoft, *Hb. Sk.*:—Breydon Water, *Phyt. 1863*:—Snape, *H. & S.*:—Southwold, *Hb. Ly.*

4. Dunwich ||:—Walberswick, *Holmes.*

5. Stutton ||; Catawade; Sutton:—Aldeburgh, *Sir C.J.F.B.*:—Felixstowe, *Purchas.*

Earliest notice 1829. Mrs. Casborne.

22. *J. bufonius*, Linn. *Toad Rush.*

Bab. Man. 373. Hook. St. Fl. 418. H. & S. 89. Hist. Yarm.
Top. Bot. Suff. E. and W. Galp. 109.

Small annual ; in shallow ditches and wet places.

Common in all the districts.

July, August.

A form of this from Covehithe has only three or four sepals with leaf-like apices, which are several times longer than the elongated capsule.

Earliest record 1773. Sir J. Cullum.

Luzula, *Cand.*

1. *L. silvatica*, *Bichen.* *L. maxima*, DC.
Great hairy Woodrush.

Bab. Man. 373. Hook. St. Fl. 419. 'Said to occur in Suffolk,'
Cyb. Britt.

Herbaceous perennial ; usually in rocky or mountain woods.

April to June.

2. Rede, *Hb. Turn. ?* There is a doubt about this specimen having been found in Suffolk. No example of it has been found in any other Herbarium.

2. *L. Försteri*, DC. *Forster's Woodrush.*

Bab. Man. 373. Hook. St. Fl. 419.

Herbaceous perennial ; in woods.

May.

2. Polstead Wood ||. May 5th, 1882. Hind.

3. *L. pilosa*, Willd. *L. vernalis*, DC. *Hairy Woodrush.*

Bab. Man. 374. Hook. St. Fl. 419. H. & S. 90. Galp. 110.
Top. Bot. Suff. E. and W.

Herbaceous perennial ; in woods.

May.

1. Fakenham and Hinderclay Woods || :—Pakenham Wood, *Hb. Cas.* :—Rushbrooke, *Hb. Sk.* :—Stowlangtoft, *Hb. Rk.* :—Barton, *Sir C.J.F.B.*

2. Wiston || ; Stoke-by-Nayland :—Hitcham, *Prof. Hens.* :—Cockfield, *W.J.*

3. Bungay, *H. & S.* :—Homersfield, *Galp.*

4. Gt. Glemham, *E.N.B.* :—Wortham, *Collins.*

5. Barking, *Hb. Peck.*

L. Borreri. Bromf.

Bab. Man. 374. Hook. St. Fl. 419.

2. Wiston ||.

Earliest record 1773. Sir J. Cullum.

4. *L. campestris*, Willd. *Field Woodrush.*

Bab. Man. 374. Hook. St. Fl. 419, 20. H. & S. 90. Hist. Yarm.
Top. Bot. Suff. E. and W. Galp. 110.

Herbaceous perennial; in pastures. April, May,
Frequent in all the districts.

Earliest record 1773. Sir J. Cullum.

5. *L. multiflora*, Lej. *Many-Flowered Woodrush.*

Bab. Man. 374. Hook. St. Fl. 420. Top. Bot. Suff. E. and W.
Herbaceous perennial; in wet heaths and woods.

June.

1. Fakenham Wood; Hopton ||; Thelnetham; Brand-
don || :—Lakenheath, *Hb. Sk.*

2. Hitcham, *Hb. Hens.* 3. Benacre.

4. Dunwich :—Walberswick, *Holmes* :—Gt. Glemham,
E.N.B.

L. congesta, Lej.

Bab. Man. 374. Hook. St. Fl. 420.

1. Mildenhall, *Sir C.J.F.B.* :—Pakenham Wood;
Wattisfield ||.

2. Rede, *Hb. Turn.* 3. Belton. 4. Dunwich ||.

L. pallescens, Koch.

Lond. Cat. 1454 d.

1. Hinderclay Wood, *Dr. Bird.*

Earliest notice 1853. Prof. Henslow.

TYPHACEÆ.

Typha, Linn.

1. *T. latifolia*, Linn. *Great Reedmace.*

Bab. Man. 376. Hook. St. Fl. 422. H. & S. 79. Hist. Fram.
Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 110.

Tall herbaceous perennial; in rivers and ponds.

June, July.

1. Knettishall ||; Coney Weston; Thelnetham; Faken-
ham; Ixworth Thorpe; Troston; Livermere; West Stow :
—Hengrave, *Hb. Blk.* :—Hawstead and Tuddenham, *E. Sk.* :
—Mildenhall, *Sir C.J.F.B.*

2. Stoke-by-Nayland :—Brettenham, *Hb. Hens.* :—
Cockfield, *W.J.* :—Melford, *J.F.W.* :—The Stour, Wixoe, *F.* :
—Rede, *Hb. Turn.*

3. Bradwell; St. Olaves; Kessingland:—Benaëre, *Sk. ms.*:—Oulton, *E. Sk.*

4. Wortham; Blythburgh:—Gt. Glemham, *E.N.B.*:—Framlingham, *Crabbe*:—near Mendham Priory, *Galp.*

5. Needham Market and Holbrooke.

Var. *T. gracilis*, Godr.

1. Sapiston ||; in a pool on Knettishall Heath.

Earliest record 1773. Sir J. Cullum.

2. *T. angustifolia*, Linn.

Lesser Reedmace.

Bab. Man. 376. Hook. St. Fl. 422, 3. H. & S. 79. Hist. Fram.
Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 110.

Tall herbaceous perennial; in streams and ponds.

June, July:

1. Ixworth Thorpe ||; Bardwell; Sapiston; Euston; Market Weston; Thelnetham; Culford; Cavenham:—Timworth, *Hb. Blk.*:—Gt. Welnetham, *Sir T. G. Cullum*:—Mildenhall, *Sir C.J.F.B.*:—an abnormal plant, with quintuple spadix, occurred at Ixworth Thorpe || in 1887.

2. Brettenham, *Hb. Hens.*:—Lavenham, *W.J.*

3. Fritton and Benaëre:—Bungay, *Woodward*:—Beccles and Halesworth, *D. Turner*:—Oulton, *E. Sk.*:—Covehithe, *Hb. Ly.*

4. Gt. Glemham; Benhall, *E.N.B.*:—Framlingham and Sweffling, *Crabbe*:—Yoxford, *Ms. Davy*:—Badingham, *T.W.G.*:—Mendham, *H.B.C.*:—Oakley, *Collins.*

5. Melton, *Ms. Davy.*

Earliest record 1798. Rev. G. Crabbe.

Sparganium, Linn.

1. *S. ramosum*, Huds.

Branched Bur-reed.

Bab. Man. 376. Hook. St. Fl. 422. H. & S. 79. Hist. Yarm.
Top. Bot. Suff. E. and W. Galp. 111.

Herbaceous perennial; in streams, ditches and ponds.

Frequent in all the districts.

June, July.

Earliest record 1773. Sir J. Cullum.

S. neglectum, Beeby.

Beeby's Bur-reed.

Lond. Cat. 1458. Galp. 111.

Herbaceous perennial; in streams and ditches.

Distribution not yet ascertained.

June, July.

1. Honington ||:—Barton, *Hb. Blk.*

2. Nayland, *Gray* :—Kersey, *E.F.L.*

3. Beccles ; Kessingland.

4. Weybread, *E. Candler.*

Earliest notice 1885. Rev. J. D. Gray.

2. *S. simplex*, *Huds.*

Simple Bur-reed.

Bab. Man. 376. Hook. St. Fl. 422. H. & S. 79. Hist. Yarm.

Top. Bot. Suff. E. and W.

Herbaceous perennial ; in streams and ditches. July.

Frequent in all the districts. The floating form occurs at Sapiston and Ixworth Thorpe in the Upper Ouse ||, and at Santon Downham in the Little Ouse.

Earliest record 1773. Sir J. Cullum.

4. *S. minimum*, *Fries.*

Least Bur-reed.

Bab. Man. 376.7. Hook. St. Fl. 422. H. & S. (*S. natans.*) 79.

Top. Bot. Suff. W.

Floating herbaceous perennial ; in ponds and streams.

July, August.

1. Mildenhall ||, *Hb. Blk.* :—in fen pools and drains between Mildenhall and Eriswell, *Sir C.J.F.B.* :—Gedding, *Dr. White* :—Wangford, *H. & S.*—Lakenheath, *F. K. Eagle.*

2. Lavenham, *Dr. White.*

5. Bricet Wood, *H. & S.* :—ditch near the Gipping, Ipswich, *I. S. Soc.*

Earliest record 1777. Sir J. Cullum, under *S. natans.*

ARACEÆ.

Acorus, *Linn.*

1. *A. Calamus*, *Linn.*

Sweet Sedge.

Bab. Man. 377. Hook. St. Fl. 424. H. & S. 80. Hist. Yarm.

Top. Bot. Suff. E. Galp. 111.

Herbaceous perennial ; edge of rivers. June, July.

1. At Coney Weston Hall, (introduced) :—Bury, near the old Gaol, *Rk. ?*

2. Moat at Cockfield Rectory, plentiful, *C.B.*

3. Banks of the Waveney ||, *Hb. Cas.* :—Burgh Castle, *D. Turner* :—Belton, *Wigg* :—between Beccles and Gillingham, *Crabbe* :—North Cove, common in many parts of the Waveney, *Holmes* :—Shipmeadow, *W. M. Crowfoot* :—Bungay Staithe, *F. Spalding* :—‘River-side below Halesworth, *Davy*, (probably in district 4).

4. Thrandeston, *Collins* :—Wenhaston, *Ms. Davy*. :—Hoxne, *Galp*.

5. Baylham, *T.B.* (very probably introduced).
Earliest record 1797. *T. Martyn*.

Arum, *Linn.*

1. *A. maculatum*, *Linn.* *Cuckoo-pint.* *Wake Robin.*
Lords and Ladies.

Bab. Man. 377, 8. *Hook. St. Fl.* 423. *H. & S.* 79. *Hist. Yarm.*
Top. Bot. Suff. E. and W. *Hist. Wher.* *Galp.* 111.

Herbaceous perennial ; in woods, thickets, and under hedges. April, May.

Frequent in all the districts.

There are two distinct forms ; the more common has spotted leaves, the spadix lurid purple, and the edges of the spathe purplish ; the other has green leaves, the spadix pale primrose, and the spathe without purplish tinge. In 1882 the spathes of both forms remained unopened until the end of May.

Earliest record 1773. *Sir J. Cullum*.

LEMNACEÆ.

Lemna, *Linn.*

1. *L. trisulca*, *Linn.* *Ivy-leaved Duckweed.*

Bab. Man. 378. *Hook. St. Fl.* 425. *H. & S.* 80. *Hist. Fram.*
Hist. Yarm. *Top. Bot. Suff. E. and W.*

Small annual ; stemless, proliferous, submerged. June.

1. Lakenheath || ; Barnham ; Fakenham ; Coney Weston ; Knettishall ; Hopton ; Troston ; West Stow :—Mildenhall, *Hb. Blk.* :—Bury, *Hb. Sk.* :—Pakenham, *Hbb. Cas. & Rk.* :—Felsham Wood, *C.B.* :—Tuddenham, *E. Sk.* :—The Lark, *Hb. Ly.*

2. Melford :—Sudbury and Cockfield, *C.B.* :—Hitcham, *Prof. Hens.* :—Nayland, *Gray* :—Great Thurlow, *Hb. F.*

3. ' Regularly flowers every year in marshes at Bradwell,' *D. Turner* :—St. Olave's Bridge || ; near Breydon Water ; Lound ; Beccles and Kessingland :—Bungay, *Stock* :—Oulton, *E. Sk.*

4. Redgrave and Dunwich :—Gt. Glemham, *E.N.B.* :—Framlingham, *Crabbe*.

5. Orford.

Earliest record 1773. *Sir J. Cullum*.

2. *L. minor*, Linn.*Lesser Duckweed.*

Bab. Man. 378. Hook. St. Fl. 425. H. & S. 80. Hist. Fram.
Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 111.

Small annual; stemless, proliferous, floating.

June, July.

Common in all the districts. 'Regularly flowers every year in marshes at Bradwell,' *D. Turner*. 'In flower at Stowlangtoft, June 1841,' *Hb. Rk.*

Earliest record 1798. Rev. G. Crabbe.

3. *L. gibba*, Linn.*Gibbous Duckweed.*

Bab. Man. 378, 9. Hook. St. Fl. 425. H. & S. 80. Hist. Yarm.
Top. Bot. Suff. E. and W.

Small annual; stemless, proliferous, floating; usually associated with *L. minor*.

June to August.

1. Wangford ||; Lakenheath; Ixworth Thorpe:—Bury, *Hb. Sk.*:—Stowmarket, *H. & S.*

2. Wixoe.

3. Kessingland; Beccles:—Bungay, *Stock*.

4. Dunwich:—Sweffling and Benhall, *E.N.B.*:—Redgrave, *C. J. Ashfield*.

5. Orford.

Earliest record 1835. D. Stock.

4. *L. polyrrhiza*, Linn.*Greater Duckweed.*

Bab. Man. 379. Hook. St. Fl. 425. H. & S. 80. Hist. Fram.
Hist. Yarm. Top. Bot. Suff. E. and W.

Small annual; stemless, proliferous, floating. 'Flowers unknown in Britain,' usually associated with *L. minor*.

1. Barton Mills; Lakenheath; Ixworth Thorpe; Livermere:—Bury, *Hb. Sk.*:—Pakenham, *Hbb. Cas. & Rk.*:—Barton and Mildenhall, *Sir C.J.F.B.*

2. Stoke and Nayland ||:—Hitcham, *Prof. Hens.*:—Sudbury, *C.B.*

3. Kessingland & Beccles:—Bungay, *Stock*:—Belton, *Paget*:—Oulton, *E. Sk.*

4. Dunwich; Mellis:—Gt. Glemham and Benhall, *E.N.B.*:—Framlingham, *Crabbe*:—Redgrave Fen, *C. J. Ashfield*.

5. Ipswich, *W.L.N.*

Earliest record 1798. Rev. G. Crabbe.

POTAMOGETONACEÆ.

Potamogeton, Linn.

1. *P. natans*, Linn. *Broad Pondweed.*

Bab. Man. 379, 80. Hook. St. Fl. 431. H. & S. 81. Hist. Yarm.
Top. Bot. Suff. E. and W. Galp.

Aquatic herbaceous perennial; floating in ponds and streams. June, July.

1. Troston ||; Livermere; Honington; Bardwell; Sapiston; Fakenham; Euston; Hopton; Thelnetham; Thetford; Wangford; Bury; Onehouse and Wetherden:—Barton, *Hb. Blk.*:—Stowlangtoft, *Hb. Rk.*:—Tuddenham, *Hb. Sk.*:—Mildenhall, *Sir C.J.F.B.*:—Barningham, *E.F.L.*

2. Stoke; Nayland; Melford:—Hitcham, *Prof. Hens.*:—Gt. Thurlow, *Hb. F.*

3. St. Olaves; Bungay; Kessingland; Beccles:—Somerleyton, *Sk. ms.*

4. Dunwich ||; Westleton; Eye; Mellis; Burgate; Redgrave:—Gt. Glemham, *E.N.B.*:—Wortham Long Green; *A.B.*

5. Hemingstone, *T.B.*:—Wherstead, *Haward*:—Otley, *E.N.B.*

Earliest record 1773. Sir J. Cullum.

2. *P. polygonifolius*, Pourr. *Polygonum-leaved Pondweed.*

Bab. Man. 380. Hook. St. Fl. 431. Top. Bot. Suff. E.

Aquatic herbaceous perennial; in ditches. July.

1. Between Gt. Welnetham & Hawstead? *E.S. Marshall.*

3. Belton ||; Lound ||.

4. Dunwich ||; Walberswick.

Earliest notice 1879. Hind.

3. *P. plantagineus*, Duer. *Plantain-leaved Pondweed.*

Bab. Man. 380. Hook. St. Fl. 431. H. & S. 81. Top. Bot. Suff. E. ? and W.

Herbaceous aquatic perennial; in fen pools and ditches. June, July.

1. Coney Weston and Hopton Fens ||; Thelnetham; Hinderclay and Mildenhall Fens:—Tuddenham Bog, *Hb. Sk.*

3. Beccles:—Somerleyton, *Sk. ms.*

4. Redgrave Fen.

Earliest notice 1860. E. Skepper.

4. *P. rufescens*, Schrad. *Ruddy Pondweed.*

Bab. Man. 380. Hook. St. Fl. 431,2. Galp. 112.

Herbaceous aquatic perennial; in rivers and streams.

July.

1. In the Upper Ouse at Bardwell, Ixworth Thorpe and Sapiston ||; in ditches at Santon Downham.

A remarkable form, with leaves approaching those of *P. plantagineus*, was found in 1882 at Riddlesworth, Norfolk; and in 1883 at Knettishall, Suffolk,—the localities within a mile of each other, and both within a few yards of the Little Ouse ||.

3. Ditches at Beccles :—in the Alde, Sweffling, *E.N.B.*

4. In the Waveney, near Scole, *D. Turner.*

Earliest record 1804. Dawson Turner.

8. *P. heterophyllus*, Schreb. *Various-leaved Pondweed.*

Bab. Man. 381. Hook. St. Fl. 432. H. & S. 81. Top. Bot. Suff. W.

Herbaceous aquatic perennial; in ponds and ditches.

June, July.

1. Bombay Fen, Mildenhall, *Sir C.J.F.B.* :—Lakenheath, *H. & S.*

3. Bungay, *Sk. ms.*

4. In the Waveney, near Diss? *Woodward.*

Earliest record 1850, *Sir C. J. F. Bunbury*; or 1812? *Woodward.*

11. *P. lucens*, Linn. *Shining Pondweed.*

Bab. Man. 382. Hook. St. Fl. 432,3. H. & S. 81. Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 113.

Herbaceous aquatic perennial; in rivers. June.

1. In Little Ouse at Knettishall, and at Thetford Warren || :—in the Upper Ouse at Bardwell; Ixworth Thorpe; Sapiston and Honington :—in the Lark at West Stow; Barton Mills and Mildenhall; in Barton Mere and Ampton Lake.

2. In the Stour at Nayland.

3. In the Waveney at Bungay and Beccles :—Somerleyton, *Hb. Sk.*

4. Oakley, *Collins.*

P. acuminatus, Schum.

Bab. Man. 382. Hook. St. Fl. 433.

1. In the Upper Ouse at Honington and Sapiston ||.

3. Barsham.

Earliest record 1773. Sir J. Cullum.

P. Zizii, Roth.

Zizi's Potamogeton.

Hook. St. Fl. 433.

Herbaceous aquatic perennial ; in ditches.

1. Mildenhall ?

3. Barsham ; Beccles ; Worlingham ; Carlton Colville.

First record 1886. Hind.

14. P. praelongus, Wulf.

Long-stalked Pondweed.

Bab. Man. 382,3. Hook. St. Fl. 433. H. & S. 81. Galp. 113.

Top. Bot. Suff. E.

Herbaceous aquatic perennial ; in rivers.

July.

1. Santon Downham, *Hb. Sk.*

3. In the Waveney at Bungay || and Beccles :—St. Olaves, *Phyt. 1862* :—Homersfield, *Galp.*

4. In the Waveney, Mendham, *H.B.C.*

Earliest record 1860. Henslow and Skepper.

15. P. perfoliatus, Linn.

Perfoliate Pondweed.

Bab. Man. 383. Hook. St. Fl. 434. H. & S. 81. Hist. Yarm.

Top. Bot. Suff. E. and W. Galp. 113.

Herbaceous aquatic perennial ; in rivers and lakes.

July.

1. In the Little Ouse, Knettishall, Santon Downham, and Lakenheath ; in the Lark at Barton Mills ; in Livermere and Ampton Lake :—Brandon, *G. C. Druce* :—in the Lark at Mildenhall, *Sir C.J.F.B.*

3. Bungay ; Barsham ; Beccles :—Somerleyton, *Hb. Sk.* :—Flixton, *H.B.C.* :—St. Olaves, *Phyt. 1862.*

4. In the Lake, Redgrave Park ||.

Earliest record 1773. Sir J. Cullum.

16. P. crispus, Linn.

Curly Pondweed.

Bab. Man. 383. Hook. St. Fl. 434. H. & S. 81. Hist. Fram.

Hist. Yarm. Top. Bot. Suff. E. and W.

Herbaceous aquatic perennial ; in ditches and ponds.

Frequent in all the districts.

June.

P. serratus, Huds.

Bab. Man. 383. Hook. St. Fl. 434. Hist. Fram.

3. Kessingland ||.

4. Framlingham, *Crabbe.*

Earliest record 1773. Sir J. Cullum.

19. *P. obtusifolius*, Koch. *P. gramineus*, Sm. not Linn.
Grassy Pondweed.

Bab. Man. 383. Hook. St. Fl. 435. H. & S. 81. Hist. Yarm.
Top. Bot. Suff. E. ?

Herbaceous aquatic perennial ; in streams and ditches.
June, July.

3. Fritton Decoy || ; Beccles :—Somerleyton, *Hb. Sk.* :
—Oulton Broad, *E. Sk.* :—Lound, *Paget* :—St. Olave's Bridge,
Trimmer.

4. Leiston, *T.W.G.*

Earliest record 1834. *Paget*.

20. *P. mucronatus*, Schrad. *P. Friesii*, Rupr.
Mucronate Pondweed.

Bab. Man. 383,4. Hook. St. Fl. 435.

Herbaceous aquatic perennial ; in lakes, streams and
ditches. July August.

1. Livermere Lake || :—Lakenheath, *G. C. Druce*, 1883.

3. Kessingland and Benacre || ; Beccles.

First notice 1883. *G. C. Druce*.

21. *P. pusillus*, Linn. Petty Pondweed.

Bab. Man. 384. Hook. St. Fl. 435. H. & S. 81. Hist. Fram.

Top. Bot. Suff. E. and W. Galp. 113.

Herbaceous aquatic perennial ; in streams and ditches,
&c. Frequent in all the districts. June.

P. tenuissimus, M. & K. *P. gracilis*, Bab.

Hook. St. Fl. 435. Lond. Cat. 1502.b.

1. Ixworth Thorpe || and Lakenheath.

3. Beccles ; Kessingland ; Benacre and Covehithe.

4. In a small pool in Redgrave Fen || :—in a pond
between Redgrave and Wortham. In a pool at Mellis.

5. Marsh ditches, Bawdsey.

Earliest record 1798. Rev. G. Crabbe.

22. *P. trichoides*, Cham. Hairlike Pondweed.

Bab. Man. 384. Hook. St. Fl. 436.

Herbaceous aquatic perennial ; in ponds and ditches.
July, August.

1. Tuddenham, *E. Sk.*, *fide Rev. K. Trimmer* :—Barton
Mere, *C.B.*

4. Ditch and pond, Wortham Long Green ||, *A.B.*

Earliest notice 1864. E. Skepper.

24. *P. pectinatus*, Linn. *Fennel-leaved Pondweed.*

Bab. Man. 384,5. Hook. St. Fl. 436. H. & S. 81. Hist. Yarm.

Top. Bot. Suff. E. Galp. 113.

Herbaceous aquatic perennial; in ponds, streams and ditches. June, July.

1. Knettishall ||; Barton Mills; Mildenhall & Lakenheath; Santon Downham.

2. Nayland, *Gray*.

3. St. Olaves; Oulton; Bungay and Southwold:—Somerleyton, *Hb. Sk.*:—Flixton, *H.B.C.*:—Gorleston, *Phyt.* 1862.

4. Dunwich || and Middleton:—Hoxne, *Collins*.

5. Walton ||; Catawade:—Aldeburgh and Brantham, *Sk. ms.*

P. salinus, Voch.

1. Livermere.

5. Walton ||.

Earliest notice 1773. Sir J. Cullum.

26. *P. densus*, Linn. *Opposite-leaved Pondweed.*

Bab. Man. 385. Hook. St. Fl. 434. H. & S. 81. Galp. 113.

Top. Bot. Suff. E. and W.

Herbaceous aquatic perennial; in streams and ditches.

June, July.

1. Bardwell ||; Ixworth; Knettishall; Thelnetham; Livermere; West Stow; Tuddenham; Barton Mills; Lakenheath:—Bury, *Hb. Sk.*:—Mildenhall, *Sir C.J.F.B.*

2. Acton and Brettenham:—Thurlow, *Hb. F.*

3. Bungay and Oulton; Beccles.

4. In the Waveney and ditches, Redgrave ||; Eye:—Wortham Green, *C.J. Ashfield*:—Badingham, *T.W.G.*:—Oakley, *Collins*:—Mendham, *Galp.*

5. Otley, *E.N.B.*

b. *P. lancifolius*, Koch.

Taschenbuch D. & S. Flora.

1. Lakenheath ||:—Bury, *Hb. Sk.*

3. Beccles.

c. *P. angustifolius*, Koch.

Taschenbuch D. & S. Flora.

1. Lakenheath ||:—Bury, *Hb. Sk.*

2. Brettenham.

3. Beccles.

Earliest record 1855. T. W. Gissing.

Ruppia, Linn.

1. *R. maritima*, Linn. *R. spiralis*, Hartm.
Common Tassel Pondweed.

Bab. Man. 385. Hook. St. Fl. 437. H. & S. 81. Hist. Yarm.
 Top. Bot. Suff. E.

Herbaceous aquatic perennial; in brackish ditches.

July, August.

3. Lowestoft, *Hb. Sk.*:—Bradwell? *Paget*:—South-
 town, *Hb. Geld.*

4. Middleton ||.

5. Walton || and Bawdsey:—Aldeburgh and Orford,
Woodward:—Felixstowe, *H.M.S.*

Earliest record 1805. Woodward and others.

2. *R. rostellata*, Koch. *Beaked Tassel Pondweed.*

Bab. Man. 385. Hook. St. Fl. 437.

Herbaceous aquatic perennial; in salt marshes.

June to August.

3. Bradwell, *Ex. Hb. G. Cooper from J. Paget.*

5. In the estuary of the Stour at Stutton:—Catawade,
E.F.L.

Earliest notice 1833. Paget.

Zannichellia, Linn.

1. *Z. palustris*, Linn. *Marsh Horned Pondweed.*

Bab. Man. 385, 6. Hook. St. Fl. 437. H. & S. 80. Hist. Yarm.
 Top. Bot. Suff. E. and W. Galp. 113.

Herbaceous aquatic plant; annual or perennial in ponds
 and streams.

May to August.

1. Harleston; Livermere:—Bury, *Hb. Sk.*:—Barton,
Sir C.J.F.B.:—Drinkstone, *J. Rasor*:—Hardwick and Ick-
 worth, *Sk. ms.*

2. Hitcham, *Prof. Hens.*

3. Beccles; Bungay and Kessingland:—Bradwell,
Paget:—Oulton, *E. Sk.*:—Lake Lothing, Lowestoft, *Sk. ms.*

4. Mendham Old Priory, *Galp.*:—Southtown, *Hb. Geld.*

Var. *Z. repens*, Bøenningh.

1. Knettishall and Livermere; Cavenham ||.

3. Ditches, St. Olaves || and Benacre.

Earliest notice 1773. Sir J. Cullum.

Z. brachystemon, J. Gay.

Bab. Man. 385. Hook. St. Fl. 437.

Aquatic herb ; annual or perennial.

May to Aug.

1. Livermere || Knettishall ||.

2. Long Melford.

3. Kessingland || ; Worlingham.

Earliest notice 1883. Hind.

Z. pedicellata, Fries.*Z. pedunculata*, Reichb.*Stalked Horn Pondweed.*

Bab. Man. 385,6. Hook. St. Fl. 437.

Aquatic herb ; annual or perennial ; in brackish pools.

June to August.

3. Ditches at St. Olave's Bridge || and Benacre.

5. Sudbourne.

Earliest notice 1882. Hind.

NAIADACEÆ.**Zostera, Linn.****2. Z. marina, Linn.***Sea Wrack.*

Bab. Man. 386.

Hook. St. Fl. 438.

H. & S. 80.

Hist. Yarm.

Top. Bot. Suff. E.

Aquatic herb ; in the sea ; most likely perennial.

July, August.

3. Gorleston and Kessingland :—Lowestoft, *E. Sk.* :—Breydon Water, *Phyt.* 1862.

4. Dunwich. Cast by the sea on all parts of the coast.

5. Stutton || ; Felixstowe and Walton :—Catawade,

E.F.L. :—in the Orwell, *Ips. Fl.* :—Aldeburgh, *Hb. Cas.**Z. angustifolia*, Syme.

Bab. Man. 386.

Hook. St. Fl. 438.

On the muddy sea-shore below high water.

3. Breydon Water.

5. Stutton || ; Catawade || ; Walton ; Woodbridge :—

Felixstowe, *Purchas.*

Earliest record 1819. Mrs. Casborne.

GLUMIFERÆ.**CYPERACEÆ.**

Schœnus, *Linn.*

1. *S. nigricans*, *Linn.* *Black Bogrush.*

Bab. Man. 389. Hook. St. Fl. 447. H. & S. 90. Top. Bot. Suff. E. and W.

Herbaceous perennial; on fens and wet heaths.

1. Thelnetham ||; Hinderclay; Hopton ||; Coney and Market Weston; Brandon and Lakenheath:—Pakenham Fen, *Hbb. Blk. & Cas.*:—Tuddenham, *Hb. Sk.*:—Mildenhall, *Sir C.J.F.B.*

3. Bungay, *Stock.* 4. Redgrave Fen.

Earliest notice 1835. D. Stock.

Cladium, *Pat. Br.*

1. *C. Mariscus*, *R. Brown.* *C. germanicum*, *Schrad.*
Common Sedge. *Twig-rush.*

Bab. Man. 389. Hook. St. Fl. 447. H. & S. 90. Galp. 128. Top. Bot. Suff. E. and W.

Herbaceous perennial; in bogs and fens; rare. July.

1. Hopton ||; Coney and Market Weston; Thelnetham:—Pakenham Fen, *Hb. Blk.*:—Tuddenham, *Hb. Sk.*:—Mildenhall, *Sir C.J.F.B.*:—Lakenheath, *Sk. ms.*

3. Between Beccles and Bungay, and near St Olave's Bridge, *Woodward*:—near Mutford Bridge, *Wigg*:—Bungay, *Stock*:—North Cove and Barnby, *Holmes.*

Earliest record 1805. Wigg and others.

Rhynchospora, *Vahl.*

1. *R. alba*, *Vahl.* *White Beaksedge.*

Bab. Man. 389. Hook. St. Fl. 446. H. & S. 90. Hist. Yarm. Top. Bot. Suff. E.

Herbaceous perennial; in bogs; somewhat rare. July.

3. Lound, *Wigg*:—Belton Bog, in plenty, *Paget, & E. Sk. & G.R.L. in Hb. Salm.*

Earliest record 1805. Wigg.

Eleocharis, *R. Brown.*

1. *E. palustris*, *R. Brown.* *Heleocharis palustris.*
Marsh Clubrush.

Bab. Man. 390. Hook. St. Fl. 441. H. & S. 91. Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 113.

Herbaceous perennial; on the edge of pools and wet ditches. Common in all the districts. June.

Earliest record 1773. Sir J. Cullum.

3. *E. multicaulis*, Sm. *Heleocharis multicaulis*.
Many Scaped Clubrush.

Bab. Man. 390. Hook. St. Fl. 441. H. & S. 91. Hist. Yarm.
Top. Bot. Suff. E. and W.

Herbaceous perennial on marshy ground July.

1. Hinderclay Fen ||.

3. Belton Bog and Worlingham, *Hb. Sk.*;—Bradwell,
Paget:—Bungay, *Stock*:—Lake Lothing, Lowestoft, *Sk. ms.*

Earliest record 1805. Wigg.

4. *E. acicularis*, Sm. *Heleocharis acicularis*.
Needle Clubrush.

Bab. Man. 390. Hook. St. Fl. 441. H. & S. 91. Top. Bot. Suff. E.
Small herbaceous perennial; on moist heaths.

July, August.

1. Belton Common, *D. Turner*:—Bungay? *Stock*.

4. Brome Fen, *Dr. Woodward*:—Ditches at Westleton,
Ms. Davy.

Earliest record 1805. Dawson Turner.

Scirpus, Linn.

1. *S. maritimus*, Linn. *Sea Clubrush.*

Bab. Man. 390, 1. Hook. St. Fl. 442. H. & S. 92. Hist. Yarm.
Top. Bot. Suff. E.

Herbaceous perennial; in salt marshes. July.

3. Burgh Castle; Breydon Water; Benacre and Covehithe:—Lowestoft, *Hb. Sk.*:—Somerleyton, *E. Sk.*:—Easton Bavent, *Hb. Ly.*

4. Dunwich ||:—Snape, *E.N.B.*:—Sizewell and Walberswick, *W.J.*

5. Walton; Aldeburgh; Stutton and Catawade:—Erwarton, *Hb. Dun.*:—Brantham, *Sk. ms.*:—Woodbridge, *H. G. Glasspoole in Hb. Geld.*

Earliest record 1834. *Paget*.

2. *S. silvaticus*, Linn. *Wood Clubrush.*

Bab. Man. 391. Hook. St. Fl. 443. H. & S. 92. Hist. Fram.
Top. Bot. Suff. E. Galp. 114.

Herbaceous perennial; in moist woods. July.

1. Edge of smaller pond, Ampton :—Clopton Park, Rattlesden, *J. Rasor*.

3. St. Margarets and St. Cross, *Holmes*.

4. In the Alde at Cransford & Sweffling ||; at Rendham, *Crabbe* :—Yoxford, *Ms. Davy* :—Gt. Glemham, *E.N.B.* :—Syleham, *Holmes* :—Weybread and Mendham, *H.B.C.*

Earliest record 1798. Rev. G. Crabbe.

5. *S. lacustris*, *Linn.*

Bulrush.

Bab. Man. 391. Hook. St. Fl. 442. H. & S. 92. Hist. Yarm.

Top. Bot. Suff. E. and W. Galp. 114.

Tall herbaceous perennial : in rivers, lakes and ponds.

Frequent in all the districts.

June, July.

Earliest record 1773. Sir J. Cullum.

6. *S. Tabernæmontani*, *Gmel.*

Lesser Bulrush.

Bab. Man. 392. Hook. St. Fl. 442. Top. Bot. Suff. E.

Herbaceous perennial ; in streams and ponds.

June, July.

1. Edge of Lesser Ouse, Knettishall :—Pakenham Fen, *Hb. Cas.*

3. St. Olaves :—Benacre ; Covehithe and near Southwold, *Holmes* :—Pettistree, *E.N.B.* :—Oulton, *E. Sk.* :—Lowestoft, *Sk. ms.*

4. Dunwich || ; the Waveney, Redgrave Fen || :—Size-well and Snape, *E.N.B.*

5. Brantham, *C.B.*

Earliest notice 1833. Mrs. Casborne.

7. *S. cæspitosus*, *Linn.*

Tufted Clubrush.

Bab. Man. 392. Hook. St. Fl. 444. H. & S. 91. Hist. Yarm.

Top. Bot. Suff. E. and W. ?

Herbaceous perennial ; on turfy heaths. June to Aug.

1. Market Weston Fen, *Gray* :—Cavenham, *E. Sk.* *vide E.N.B.*

3. Belton and Lound, *Paget* :—Lowestoft, *Hb. Sk.*

4. Dunwich || ; Westleton ||.

Earliest record 1834. Paget.

8. *S. pauciflorus*, *Lightf.*

Few-flowered Clubrush.

Bab. Man. 392. Hook. St. Fl. 444. H. & S. 91. Hist. Yarm.

Top. Bot. Suff. E. and W.

Herbaceous perennial ; in boggy heaths. June to Aug.

1. Mildenhall, *J. Townsend* and *Sir C.J.F.B.* :—Tud-denham, *F. K. Eagle in Hb. Ly.*

3. Bungay Common, *Woodward* :—Belton Common, *Wigg* :—Bradwell Common, *D. Turner* :—Lound, *Paget* :—Worlingham, *H. & S.*

4. Snape, *E.N.B.* :—between Southwold and Dunwich, *Holmes.*

Earliest record 1805. *Wigg* and *Woodward.*

10. *S. fluitans*, *Linn.*

Floating Clubrush.

Bab. Man. 392,3. *Hook. St. Fl.* 443. *H. & S.* 91. *Hist. Yarm.*
Top. Bot. Suff. E. and W.

Small herbaceous perennial; usually floating; more compact and caespitose when growing out of water.

June, July.

1. Mildenhall, *Sir C.J.F.B.* :—Market Weston Fen ||, terrestrial form.

3. Lound :—Benacre, *E.N.B.* :—Belton, *Hb. Sk.* :—Lowestoft and Fritton, *Sk. ms.* :—Belton Bog, *G.R.L. in Hb. Salm.*

5. Walton.

Earliest notice 1773. *Sir J. Cullum.*

11. *S. setaceus*, *Linn.*

Bristle Clubrush.

Bab. Man. 393. *Hook. St. Fl.* 443. *H. & S.* 91. *Hist. Yarm.*
Top. Bot. Suff. E. and W. *Galp.* 114.

Herbaceous perennial; in moist pastures. July.

1. Mildenhall, *Hb. Blk.* :—Barton (now lost) and Eriswell Lode, *Sir C.J.F.B.* :—West Stow and Cavenham
Severals, *E. Sk.*

2. Hitcham, *H. & S.*

3. Bungay, *Hb. Sutt.* :—Herringfleet, *Hb. Sk.* :—Bradwell, *Paget* :—Lowestoft, *E. Sk.* :—Beccles.

4. Benhall, *E.N.B.*

Earliest notice 1774. *Sir J. Cullum.*

12. *S. Savii*, *Seb. & Maur.*

Savi's Clubrush.

Bab. Man. 393. *Hook. St. Fl.* 443. *H. & S.* 91. *Top. Bot. Suff. E.*

Small herb, most likely perennial; near the coast.

July.

3. Lowestoft, *Hb. Sk.*

4. Snape, *E.N.B. in Phyt.* 1858.

Var. *S. monostachys. S. pygmaeus*, *Kunth.*

3. St. Olave's Bridge, *E. Sk.*

4. Snape, 1854, *E.N.B.*

Earliest notice 1854. Rev. E. N. Bloomfield.

Blysmus, Panz.1. **B. compressus, Panz.** *Scirpus Caricis, Retz.*
*Broad-leaved Blysmus.*Bab. Man. 393. Hook. St. Fl. 444. H. & S. 91. Hist. Yarm.
Top. Bot. Suff. E. and W.

Herbaceous perennial; in boggy pastures. June, July.

1. Livermere ||; Hopton ||; Troston:—Barton, *Hb. Blk.*:—Pakenham Fen, *Hbb. Cas. & Rk.*:—Tuddenham, *Hb. Sk.*:—Mildenhall, *F. K. Eagle in Hb. Ly.*:—Eriswell, *H. G. Glasspoole in Hb. Geld.*3. Flixton Marshes, *Wigg*:—Bungay, *Stock.*4. Middleton, *Davy*:—Benhall Green, *E.N.B.*:—between Dunwich and Walberswick, *Prof. Bab.*:—Sp. in Cambridge Herbarium.5. Aldeburgh, *Sk. ms.*

Earliest record 1805. Woodward and others.

2. **B. rufus, Link.** *Scirpus rufus, Wahlb.*
Narrow-leaved Blysmus.

Bab. Man. 393. Hook. St. Fl. 444, 5.

Herbaceous perennial; in marshes near the sea-coast.

July.

4. Edge of the Mere near Aldeburgh, 1832, *Sir C. J. F. B. in Hb. Blk.*

Earliest notice 1832. Sir C. J. F. Bunbury.

Eriophorum, Linn.3. **E. polystachyon, Linn.** *Common Cotton-grass.*Bab. Man. 394. Hook. St. Fl. 445. H. & S. 92. Hist. Fram.
Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 114.

Herbaceous perennial; in bogs and fens. May, June.

Frequent in all the districts.

b. E. minus, Koch.

Bab. Man. 394.

1. Hopton Fen ||; Thelnetham; Brandon ||.

2. Lavenham, *Mr. Edgar, fide C.B.**c. E. elatius, Koch.*

Bab. Man. 394.

1. Tuddenham Bog ||. 3. Worlingham, *R. E. Leach*.
d. E. capitatum, Don ?
 Bab. Man. 394.
 3. Worlingham. *R. E. Leach*. Usually an Alpine form.
 Earliest record 1773. Sir J. Cullum.
4. *E. latifolium*, Hoppe. *Broad-leaved Cotton-grass*.
 Bab. Man. 394. Hook. St. Fl. 445. H. & S. 92. Top. Bot.
 Suff. E. ?
 Herbaceous perennial ; in bogs and marshes. May, June.
 1. Tuddenham ||, *W.J.* :—Mildenhall, *Sir C.J.F.B.*
 3. Somerleyton, *Hb. Sk.* :—Belton, *E. Sk.* :—Worling-
 ham, *R. E. Leach*.
 Earliest record 1860. E. Skepper.

Carex, Linn.

1. *C. dioica*, Linn. *Dioecious Carex*.
 Bab. Man. 395. Hook. St. Fl. 449. H. & S. 92. Top. Bot.
 Suff. E. and W.
 Herbaceous perennial ; in bogs. May, June.
 1. Hinderclay Fen || :—Tuddenham, *Hb. Sk.* :—Mil-
 denhall, *Sir C.J.F.B.* :—Wangford and Hopton, *E. Sk.*
 3. Bungay, *Stock and Woodward*.
 Earliest record 1774. Sir J. Cullum.
3. *C. pulicaris*, Linn. *Flea Carex*.
 Bab. Man. 395. Hook. St. Fl. 448. H. & S. 92. Hist. Yarm.
 Top. Bot. Suff. E. and W. Galp. 128.
 Herbaceous perennial ; in bogs. June.
 1. Hopton || ; Thelnetham || :—Pakenham, *Hb. Cas.* :
 —Woolpit, *Hb. F.* :—Market Weston Fen, *Gray* :—Milden-
 hall, *Sir C.J.F.B.* :—Tuddenham Heath, *W.J.* :—Laken-
 heath, *Sk. ms.*
 3. Belton, *Paget* :—Bungay, *Woodward*.
 4. Gt. Glemham, *E.N.B.*
 Earliest record 1812. Woodward.
6. *C. disticha*, Huds. *Intermediate Carex*.
 Bab. Man. 396. Hook. St. Fl. 449, 50. H. & S. 93. Hist. Yarm.
 Top. Bot. Suff. E. and W. Galp. 114.
 Herbaceous perennial ; in marshy pastures. May, June.
 1. Knettishall || ; Thelnetham ; Bardwell ; Ixworth
 Thorpe || ; Troston ; Ampton :—Barton, *Hb. Blk.* :—Paken-
 ham, *Hb. Cas.* :—Tuddenham, *Hb. Sk.* :—Mildenhall, *Sir*
C.J.F.B. :—Bury, Mermaid's Pits, *H. & S.* :—Santon Down-
 ham, *Sk. ms.*

3. Belton and Somerleyton, *Paget*:—Bungay, *Stock*:—Lowestoft, *Sk. ms.*:—bank of stream between St. Peters and St. Margarets, *Galp.*

4. Gt. Glemham, *E.N.B.*:—Sizewell, *H. & S.*

5. By the Gipping, *Ips. Fl.*

Earliest record 1833. Mrs. Casborne.

7. *C. arenaria*, *Linn.*

Sand Carex.

Bab. Man. 396. Hook. St. Fl. 450. H. & S. 93. Hist. Yarm.

Top. Bot. Suff. E. and W.

Herbaceous perennial; on sandy heaths and the sea-shore.

June.

1. Elveden ||; Thetford; Barnham; Euston: Tros-ton:—Mildenhall, *Hb. Blk.*:—Tuddenham, *Hb. Sk.*:—West Stow, *H. & S.*:—Santon Downham, *Sk. ms.*

3. Lowestoft ||; Belton; Benacre:—Bungay, *Stock*:—Southwold, *Holmes.*

4. Dunwich and Westleton:—Sizewell:—Benhall; Farnham, *E.N.B.*

5. Felixstowe:—Aldeburgh, *Hb. Cas.*:—Landguard Fort, *Hb. F.*:—Tunstall, *E.N.B.*

Earliest record 1775. Sir J. Cullum.

9. *C. divisa*, *Huds.*

Divided Carex.

Bab. Man. 397. Hook. St. Fl. 449. H. & S. 93. Top. Bot. Suff. E.

Herbaceous perennial; in pastures near the sea.

May, June.

4. Dunwich, *Holmes.*

5. Walton ||:—Hollesley, *Holmes*:—Bawdsey, *W.L.N.*:—Felixstowe, *Purchas.*

Earliest record 1850. Rev. E. A. Holmes

10. *C. vulpina*, *Linn.*

Fox Carex.

Bab. Man. 397. Hook. St. Fl. 451. H. & S. 93. Hist. Yarm.

Top. Bot. Suff. E. and W.

Herbaceous perennial; by the side of ditches and ponds.

June.

1. Stanton ||; Bardwell; Ixworth; Sapiston; Hon-ington; Fakenham; Thurston; Harleston; Brandon:—Barton, *Hb. Blk.*:—Bury, *Hb. Sk.*:—Market Weston Fen, *Gray*:—Tuddenham, *E. Sk.*

2. Hitcham, *Hb. Hens.*:—Lit. Thurlow, *Hb. F.*:—Rede, *Hb. Turn.*

3. St. Olave's Bridge; Beccles; Kessingland & Ben-acre:—Oulton, *E. Sk.*

4. Wortham ; Mellis ; Eye ; Dunwich ; Sizewell :—
Gt. Glemham, *E.N.B.*

5. Grundisburgh, *T.H.* :—Felixstowe, *Purchas* :—
Orford.

Earliest notice 1834. Paget.

11. *C. muricata*, *Linn.*

Prickly Carex.

Bab. Man. 397. Hook. St. Fl. 451. H. & S. 93. Hist. Yarm.

Top. Bot. Suff. E. and W. Galp. 114.

Herbaceous perennial ; on banks and light pastures.

June.

1. Ixworth Thorpe || ; Honington ; Sapiston ; Fakenham ; West Stow ; Brandon || ; Wetherden ; Haughley :—Fornham, *Hb. Blk.* :—Bury, *Hb. Sk.* :—Mildenhall, *J. Townsend.*

2. Stoke and Nayland :—Hitcham, *Prof. Hens.* :—Lit. Thurlow, *Hb. F.* :—Rede, *Hb. Turn.*

3. St. Olave's Bridge :—Belton, *Paget* :—Flixton ; St. Margarets, *Galp.*

4. Westleton and Leiston :—Gt. Glemham and Sterfield, *E.N.B.*

5. Grundisburgh, *T.H.*

C. pseudo-divulsa. Syme.

Hook. St. Fl. 451. Lond. Cat. 1567.b.

1. Sapiston Grove || :—Coney Weston, *E.F.L.*

2. Nayland, *Gray* :—Kersey, *E.F.L.*

Earliest record 1834. Paget.

12. *C. divulsa*, *Good.*

Grey Carex.

Bab. Man. 397. Hook. St. Fl. 451. H. & S. 93. Galp. 115.

Top. Bot. Suff. E. and W.

Herbaceous perennial ; on banks.

June.

1. Bardwell || ; Honington ; Ixworth Thorpe ; Wetherden ; Haughley :—Ickworth, *Hb. Blk.* :—Hardwick, *H. & S.* :—Cavenham, *Sk. ms.* :—Hesset, *Hb. Ly.*

2. Hitcham, *Prof. Hens.*

3. Benacre :—Bungay, *Stock.* :—St. Margarets, *Galp.*

4. Gt. Glemham, *E.N.B.* :—Middleton, *T.W.G.*

5. Felixstowe, *Purchas.*

Earliest notice 1835. D. Stock.

13. *C. teretiuscula*, *Good.*

Lesser panicled Carex.

Bab. Man. 398. Hook. St. Fl. 450, 1. H. & S. 93. Hist. Yarm.
Top. Bot. Suff. E. and W.

Herbaceous perennial ; in bogs. June.

1. Thelnetham || ; Hopton ; Ixworth Thorpe :—Tud-
denham, *Hb. Sk.* :—Market Weston, *Gray* :—Mildenhall,
J. Townsend :—Barton Mills, *Crowe* :—Lackford, *F. K. Eagle*
in Hb. Ly.

3. Bradwell, *Wigg* :—Belton, *Paget* :—Bungay, *Stock* :
—Fritton Decoy, *H. & S.*

4. Darsham, *Davy* :—Dunwich, *T.W.G.*

5. Aldeburgh, *Sir J. E. Smith.*

Earliest record 1804. *Crowe.*

14. *C. paradoxa*, Willd. *Strange panicled Carex.*

Bab. Man. 398. Hook. St. Fl. 450.

Herbaceous perennial ; in bogs ; very rare. May, June.

1. Market Weston Fen, *Hb. Gray* : this locality came
to our knowledge later than the one below :—in a swamp
between Icklingham and Mildenhall ||. For this interesting
addition to our Flora, we are indebted to the *Rev. E. S.*
Marshall, who gathered it May 3rd, 1887.

First found 1884. *Rev. J. D. Gray.*

15. *C. paniculata*, Linn. *Great panicled Carex.*

Bab. Man. 398. Hook. St. Fl. 450. H. & S. 93. Hist. Yarm.

Top. Bot. Suff. E. and W. Galp. 114.

Large herbaceous perennial ; in bogs. June.

1. Hopton || ; Ixworth Thorpe || ; Bardwell ; Honing-
ton ; Coney Weston ; Barnham ; Thetford ; Icklingham ;
Lakenheath :—Bury, *Hb. Sk.* :—Langham, *Hb. Blk.* :—
Mildenhall, *Sir C.J.F.B.* :—Lackford and Tuddenham,
E. Sk. :—Cavenham Severals and Santon Downham, *Sk. ms.*

2. Polstead Marsh.

3. Fritton :—Belton, *Paget* :—Benacre, *Sk. ms.* :—Bun-
gay, *H. & S.* :—Flixton, *Galp.*

4. Redgrave Fen.

5. Woolverstone :—Sudbourne, *E.N.B.*

Earliest record 1834. *Paget.*

17. *C. axillaris*, Good. *Axillary Clustered Carex.*

Bab. Man. 399. Hook. St. Fl. 452. H. & S. 92. Top. Bot.

Suff. E. and W. Galp. 115.

Herbaceous perennial ; in damp shady spots. June.

1. Stanton ||; Kentford :—Hardwick, *Hb. Sk.* :—Gedding, *Sk. ms.* :—Hesset, *Hb. Ly.*

2. Hitcham, *Hb. Hens.* :—Nayland, *Gray* :—Lit. Thurlow, *Hb. F.*

3. Mettingham :—Bungay, *Stock* :—St. Margarets and St. James, *Holmes* :—Chediston and Spexhall, *Trimmer* :—St. Cross, *Galp.*

4. Metfield, *D. Turner* :—Badingham and Cransford, *T.W.G.* :—Rendham, *E.N.B.*

Earliest record 1805. Dawson Turner.

18. *C. remota*, Linn.

Distant Spiked Carex.

Bab. Man. 399. Hook. St. Fl. 452. H. & S. 92. Hist. Yarm. Galp. 115. Top. Bot. Suff. E. and W.

Herbaceous perennial; on banks by streams or wet ditches. June.

1. Market Weston ||; Stanton; Pakenham; Thurston; Harleston; Shelland :—Rougham, *Hb. Blk.* :—Barton, *Sir C.J.F.B.* :—Hardwick, *Hb. Sk.* :—Bury, *E. Sk.*

2. Brettenham; Wickhambrook; Melford; Nayland; Wiston :—Hitcham, *Prof. Hens.* :—Lit. Thurlow, *Hb. F.* :—Rede, *Hb. Turn.*

3. Blundeston, *D. Turner* :—Oulton, *E. Sk.* :—Beccles; Easton Bavent.

4. Mellis :—Gt. Glemham, *E.N.B.*

5. Grundisburgh, *T.H.*

Earliest record 1805. Dawson Turner.

19. *C. stellulata*, Good.

C. echinata, Murr.

Little prickly Carex.

Bab. Man. 399. Hook. St. Fl. 451. H. & S. 92. Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 128.

Herbaceous perennial; in marshy places. May, June. Is less frequent in Suffolk than might have been expected.

1. Honington; Thelnetham; Bury :—Tuddenham, *Hb. Sk.* :—Mildenhall, *H. & S.* :—Cavenham, *Sk. ms.*

2. Nayland, *Gray.*

3. Lound :—Belton, *Paget* :—Bungay, *Stock.*

4. Dunwich ||; Westleton :—Snape and Benhall Green, *E.N.B.*

Earliest record 1834. Paget.

21. *C. canescens*, Linn. *C. curta*, Good. *White Carex*.

Bab. Man. 400. Hook. St. Fl. 452. H. & S. 92. Hist. Fram.
Hist. Yarm. Top. Bot. Suff. E.

Herbaceous perennial ; in bogs. June.

3. Flixton Marshes, *D. Turner* :—Blundeston, *Sir J. F. Smith* :—Lound and Belton, *Paget*.

4. Westleton, *Ms. Davy* :—Framlingham, *Crabbe* :—
Snape ||, *E.N.B.*

Earliest record 1798. Rev. G. Crabbe.

24. *C. ovalis*, Good. *C. leporina*, Linn.

Oval Spiked Carex.

Bab. Man. 400. Hook. St. Fl. 452. H. & S. 92. Hist. Yarm.
Top. Bot. Suff. E. and W.

Herbaceous perennial ; in moist meadows. July.

Occurs in all the districts.

Earliest record 1834. *Paget*.

25. *C. stricta*, Good. *Tufted Bog Carex*.

Bab. Man. 401. Hook. St. Fl. 454,5. H. & S. 93. Hist. Yarm.

Herbaceous perennial ; in marshes. June.

1. Brandon Bog || ; Tuddenham ||, *W.J.* ; 'Specimen sent me by Mr. Jordan,' *H. C. Watson* :—'In Bombay Fen, and other bogs, Mildenhall,' *Sir C.J.F.B.*

3. Bungay, *S. Woodward* : probably in marsh ditches, near Southtown. See *Paget*.

4. Wet ditch a little N.W. of Burgate Wood, *E.S. Marshall*,

Earliest notice 1837. *S. Woodward*.

26. *C. acuta*, Linn. *Slender spiked Carex*.

Bab. Man. 401. Hook. St. Fl. 454. H. & S. 93. Hist. Yarm.
Top. Bot. Suff. E. and W. ? Galp. 115.

Herbaceous perennial ; in bogs and wet places. June.

1. Brandon Bog || ; moist meadows at Santon Downham || ; Ixworth Thorpe || ; Pakenham Wood || ; Fakenham ; Market Weston :—Norton, *L. N. Rickards in Hb. Blk.* :—Tuddenham, *Hb. Sk.* :—between Icklingham and Mildenhall, *Rev. E. S. Marshall* :—the Butts, Bury, *Hb. Ly.*

3. Bungay, *H. & S.* See *Paget*.

4. Rendham ; Sweffling, *E.N.B.*

Earliest record 1774. *Sir J. Cullum*.

29. *C. vulgaris*, *Fries.* *C. Goodenowii*, J. Gay-
Tufted Carex.

Bab. Man. 402. Hook. St. Fl. 455. H. & S. 93. Hist. Yarm.
Top. Bot. Suff. E. and W. Galp. 115.
Herbaceous perennial ; in marshes. May, June.
In all the districts.

C. juncella, *Fries.*

Lond. Cat. 1587.b.

1. Tuddenham Bog || ; Thelnetham.

2. Rede, *Hb. Turn.*

An abnormal form with very short spikelets was gathered at Hopton ||, W. Suffolk, July 25th, 1883.

Earliest record 1773. Sir J. Cullum.

33. *C. pallescens*, *Linn.* *Pale Carex.*

Bab. Man. 403. Hook. St. Fl. 457. H. & S. 94. Top. Bot. Suff. E. and W.

Herbaceous perennial ; in damp woods and marshes.

June.

1. Ixworth Thorpe || ; Fakenham Wood :—Pakenham, *Hb. Cas.* :—Woolpit and Clopton Grove, *Hb. F.* :—Felsham Wood, *Hb. Sk.*

2. Hitcham, *Hb. Hens.* :—Cockfield, *W.J.*

3. Bungay, *H. & S.* 4. Gt. Glemham, *E.N.B.*

Earliest record 1833. Mrs. Casborne.

34. *C. panicea*, *Linn.* *Pink-leaved Carex.*

Bab. Man. 403. Hook. St. Fl. 457. H. & S. 94. Hist. Yarm.
Top. Bot. Suff. E. and W. Galp. 115.

Herbaceous perennial ; in wet pastures.

June.

Common in all the districts.

Earliest record 1774. Sir J. Cullum.

36. *C. limosa*, *Linn.* *Mud Carex.*

Bab. Man. 403. Hook. St. Fl. 456. H. & S. 94. Hist. Yarm.
Top. Bot. Suff. E. and W.

Herbaceous perennial ; in wet bogs.

June.

3. Belton Bog, *Paget.*

Earliest record 1834. Paget.

40. *C. strigosa*, *Huds.* *Loose pendulous Carex.*

Bab. Man. 404. Hook. St. Fl. 463,4. H. & S. 94. Top. Bot. Suff. W.

Herbaceous perennial ; in shady places ; rare.

May, June.

2. Brent Eleigh, *H. & S.* 1860. Henslow & Skepper.

41. *C. pendula*, *Huds.* *Great pendulous Carex.*

Bab. Man. 404,5. Hook. St. Fl. 458. *H. & S.* 95. Top. Bot.

Suff. E. and W.

Herbaceous perennial ; woods and shady places on clay soil.

May, June.

1. Rattlesden ; Ampton ; Denham :—Hardwick, *Hb. Sk.* :—the Butts, Bury, *Hb. Ly.* :—Hawstead, *H. & S.* :—Felsham, *Sk. ms.*

2. Brettenham ; Wickhambrook :—Cockfield || and Preston, *C.B.* :—Hitcham, *Prof. Hens.* :—Lit. Thurlow, *Hb. F.* :—Rede, *Hb. Turn.*

5. Woodbridge, *Rev. P. Lathbury.*

Earliest record 1775. Sir J. Cullum.

45. *C. præcox*, *Jacq.* *Vernal Carex.*

Bab. Man. 405. Hook. St. Fl. 458. *H. & S.* 93. Hist. Yarm.

Top. Bot. Suff. E. and W. Galp. 115.

Small herbaceous perennial ; in pastures and heaths.

April, May.

Frequent in all the districts. A form from Lit. Thurlow is likely *C. capitata*, Ar. Benn.

Earliest record 1836. Prof. Henslow.

46. *C. ericetorum*, *Poll.* *Heath Carex.*

Bab. Man. 406. Hook. St. Fl. 459.

Small herbaceous perennial ; on heathy pastures. Apr. May.

1. Mildenhall, *J. of B.* 1877, p. 57. 'June 3rd, 1829.'—*'Dr. Boswell and Mr. H. C. Watson have specimens from me,' A.B.* :—'Icklingham, Heath ||, and by the grassy sides of the road towards Icklingham,' *A.B.*, May 10th, 1877 :—'One specimen on Risby Heath,' *A.B.* Probably was the plant seen by Sir J. Cullum, April 1775 & '76. (See next species.)

Earliest record 1829. Sir W. C. Trevelyan, 'gathered by a friend.'

[*C. montana*, Linn. In the Naturalist's Journal of Sir J. Cullum, are two notices of this plant : 'On Newmarket Heath, April 12th, 1775.' 'April 12th, 1776, Hæc est quæ in siccis Ericetis prima omnium Caricum floret.' The locality on dry heaths would well suit *C. pilulifera* ; but the

date is too early for this plant. *C. præcox*, or, not improbably, *C. ericetorum*, may have been the plant intended.]

48. *C. pilulifera*, Linn. *Round-headed Carex.*

Bab. Man. 406. Hook. St. Fl. 458, 9. H. & S. 93. Hist. Yarm.
Top. Bot. Suff. E. and W.

Herbaceous perennial; on dry heaths. May.

1. Hopton ||; Troston; Fakenham:—Felsham, *Hb. Sk.*:—Mildenhall, *Hb. Blk.*:—Tuddenham Heath, *H. & S.*:—Santon Downham, *Sk. ms.*

2. Cockfield, *Sk. ms.*

3. Belton Common:—Herringfleet, *Paget*:—Lound, *Paget in Hb. Geld.*:—Bungay, Woodward.

4. Dunwich ||; Westleton:—Snape, *E.N.B.*

5. Otley Wood, *E.N.B.*

Earliest record 1774. Sir J. Cullum.

50. *C. glauca*, Scop. *Glaucous Heath Carex.*

Bab. Man. 406, 7. Hook. St. Fl. 456. H. & S. 94. Hist. Yarm.
Top. Bot. Suff. E. and W. Galp. 115.

Herbaceous perennial; in damp places. June.

Frequent in all the districts.

Earliest 1850. Prof. Henslow.

53. *C. flava*, Linn. *Yellow Carex.*

Bab. Man. 407. Hook. St. Fl. 461. H. & S. 94. Hist. Yarm.
Top. Bot. Suff. E. and W.

Herbaceous perennial; in bogs and moist pastures.

May, June.

1. Hopton Fen ||; Market Weston; Thelnetham; Brandon:—Mildenhall, *Hb. Blk.*:—Tuddenham, *Hb. Sk.*:—Lakenheath, *H. & S.*

3. Bungay, *H. & S.*:—Lowestoft and Somerleyton, *E. Sk.*

4. Benhall Green and Snape, *E.N.B.*:—Redgrave Fen.

b. C. lepidocarpa, Tausch.

Bab. Man. 407. Hook. St. Fl. 461. Top. Bot. Suff. E. and W.
1. Hopton Fen ||; Thelnetham and Market Weston; Icklingham.

4. Redgrave Fen.

Var. C. minor, Townsend.

Lond. Cat. 1616.b.

True *C. Oederi*, Ehrh., Willd., and Schkier, fide Mr. Bailey, U.S.A.

1. Lakenheath ||; Tuddenham Bog ||; Wangford; Brandon || and Hopton ||.

Plants of *C. minor* gathered at Lakenheath, exhibit the following abnormal features:

a. No male spike; five fertile spikes slightly distant from each other.

b. The male spike is crowned with fruit.

c. The male spike has its base set with fruit.

d. The lowest fertile spike is at the base of the stem, three inches below the others.

e. The lowest spike is compound, and close to the others.

Earliest record 1834. Paget.

54. *C. Oederi*, Ehrh? *Carex flava*, var. *cyparoides*, Marsson, fide Mr. Bailey, U.S.A. *Oeder's Carex*.

Bab. Man. 407, 8. Hook. St. Fl. 461. H. & S. 94. Hist. Yarm. Hist. Fram. Galp. 129.

Herbaceous perennial; in bogs. June, July.

1. Tuddenham, *Hb. Sk.*:—Mildenhall, *Sir C.J.F.B.*

3. Bradwell; Belton, *D. Turner*:—Lound ||, *D. Turner*:—Lowestoft, *Hb. Blk.*:—Bungay, *Stock*.

4. Dunwich:—Brome, *Dr. Woodward*:—Framlingham, *Crabbe*.

Earliest record 1805. Dawson Turner.

55. *C. extensa*, Good. *Long bracteated Carex*.

Bab. Man. 408. Hook. St. Fl. 461. H. & S. 94. Hist. Fram. Hist. Yarm. Top. Bot. Suff. E. and W.

Herbaceous perennial; in marshes, usually near the sea. June.

3. Lound:—Lowestoft ||, *Hb. Sk.*:—Southwold, *Holmes*:—near the river at Belton, *H. & S.*

4. Framlingham? *Crabbe*:—Dunwich, *Woodward in Hb. Geld*.

5. Aldeburgh, *Hb. Blk.*

Earliest record 1798. Rev. G. Crabbe.

56. *C. Hornschuchiana*, Hoppe. *Tawny Carex*.

Bab. Man. 408. Hook. St. Fl. 462. H. & S. 94. Top. Bot. Suff. E. and W.

Herbaceous perennial; in boggy pastures. June.

1. Mildenhall ||, *F. K. Eagle in Hb. Blk.* :—Bombay Fen, Mildenhall, *Sir C.J.F.B.* :—Tuddenham, *Hb. Sk.*

2. Lit. Thurlow, *Hb. F.* 3. Bradwell, *H. & S.*

4. Theberton Common, *Davy.*

Earliest record 1805. *Davy.*

57. *C. punctata*, *Gaud.* *Dotted-fruited Carex.*

Bab. Man. 408. Hook. St. Fl. 462.

Herbaceous perennial; on the sea-coast. June, July.

4. Dunwich ||; on gravelly banks, very close to the sea.

One a little North of the village; the other two miles South of it. A sea-wall recently built has destroyed the second locality, which was at Scot's Hall.

First discovered June 1879. *Hind.*

58. *C. distans*, *Linn.* *Loose Carex.*

Bab. Man. 408,9. Hook. St. Fl. 462. H. & S. 94. Hist. Yarm.

Top. Bot. Suff. E. Galp. 128.

Herbaceous perennial; in marshy pastures. May, June.

1. Market Weston Fen.

3. Lowestoft, *Hb. Sk.* :—Southwold, *Sir C.J.F.B.* :—Bungay, *Hb. Sk.*

4. Dunwich || :—Sizewell and Snape, *E.N.B.*

5. Aldeburgh! *Holmes.*

Earliest notice 1774. *Sir J. Cullum.*

59. *C. binervis*, *Sm.* *Green-ribbed Carex.*

Bab. Man. 409. Hook. St. Fl. 462. H. & S. 94. Hist. Fram.

Top. Bot. Suff. E. and W.

Herbaceous perennial; on heaths. June, July.

1. Tuddenham ||; Ixworth Thorpe; Pakenham Fen, *Hb. Cas.* :—Mildenhall, *J. Townsend* :—Barton, *Sir C.J.F.B.*

3. Corton Heath, *D. Turner* :—Ashby Heath, *Paget* :—Lowestoft, *Hb. Sk.* ? :—Bungay, *H. & S.*

4. Dunwich ||.

Earliest record 1805. *Dawson Turner.*

62. *C. silvatica*, *Huds.* *Wood Carex.*

Bab. Man. 409,10. Hook. St. Fl. 463. H. & S. 94. Galp. 115.

Top. Bot. Suff. E. and W.

Herbaceous perennial; in woods. May.

1. Stanton ||; Ixworth Thorpe ||; Sapiston Grove; Fakenham Wood :—Pakenham, *Hb. Cas.* :—Troston, *Gray* :—Barton, *Sir C.J.F.B.* :—Hardwick and Felsham, *H. & S.*

2. Acton and Wiston :—Hitcham, *Hb. Hens.* :—Rede, *Hb. Turn.* :—Cockfield, *W.J.*

3. Benacre :—Bungay, *H. & S.*

4. Burgate :—Gt. Glemham, *E.N.B.* :—Weybread ; Mendham Grove, *Galp.*

5. Grundisburgh, *T.H.*

Earliest record 1833. Mrs. Casborne.

63. *C. Pseudo-cyperus*, *Linn.* *Cyperus-like Carex.*

Bab. Man. 410. Hook. St. Fl. 465. H. & S. 94. Hist. Yarm.
Top. Bot. Suff. E. and W. Galp. 116.

Herbaceous perennial ; in fens. More frequent in Suffolk than in most neighbourhoods. June.

1. Sapiston || ; Hopton Fen ; Thelnetham ; Santon Downham ; Lakenheath :—Edge of Ampton Lake, *Gray* :—Barton and Mildenhall, *Sir C.J.F.B.* :—Hardwick and Felsham, *H. & S.* :—Bury, *Sk. ms.*

2. Cockfield, *C.B.* :—Hitcham, *Hbb. Hens. & Sk.* :—Rede, *Hb. Turn.*

3. Beccles ; St. Olave's Bridge ; Fritton Decoy :—Bungay, *Stock* :—Somerleyton, *Paget* :—Belton, *E.N.B.* :—Gorleston, *Phyt. 1862,3* :—Bradwell and Wangford, *H. & S.* :—Benacre, *E. Sk.* :—Kirkley, *H.D.G. in Hb. Geld.*

4. Redgrave and Wortham :—Gt. Glemham, *E.N.B.* :—Wingfield ; Weybread, *H.B.C.* :—Badingham, *T.W.G.*

5. Stutton.

Earliest record 1834. Paget.

64. *C. filiformis*, *Linn.* *Slender-leaved Carex.*

Bab. Man. 410. Hook. St. Fl. 460. H. & S. 93. Hist. Yarm.
Top. Bot. Suff. E. and W. Galp. 116.

Herbaceous perennial ; in peat bogs ; rare. May.

1. Lakenheath, *Hb. Sk.* :—Brandon, *F. K. Eagle* :—Mildenhall, *Sir C.J.F.B.*

3. Bogs at Lound, *D. Turner* :—Worlingham, *H. & S.*

Earliest record 1805. Dawson Turner.

65. *C. hirta*, *Linn.* *Hairy Carex.*

Bab. Man. 410. Hook. St. Fl. 460. H. & S. 94. Hist. Yarm.
Top. Bot. Suff. E. and W. Galp. 116.

Herbaceous perennial ; in wet pastures and fens. Apr.

1. Bury || ; Knettishall || ; Hopton ; Market Weston ; Thelnetham ; Hinderclay ; Euston ; Honington ; Paken-

ham ; Thetford ; Brandon ; Cavenham :—Mildenhall, *Sir C.J.F.B.* :—Tuddenham, *W.J.*

2. Acton ; Melford ; Stoke and Nayland :—Hitcham, *Hb. Hens.* :—Lit. Thurlow, *Hb. F.* :—Cockfield, *W.J.*

4. Gt. Glemham, *E.N.B.* :—Weybread, *Galp.*

5. Grundisburgh, *T.H.* :—Felixstowe, *Purchas.*

Earliest record 1834. Paget.

68. *C. ampullacea*, *Good.* *C. rostrata*, *Stokes.*
Slender-beaked Bottle Carex.

Bab. Man. 411. Hook. St. Fl. 464, 5. H. & S. Hist. Yarm.
Top. Bot. Suff. E. and W. Galp. 116.

Herbaceous perennial ; in fens and boggy ditches. June.

1. Hopton Fen || ; Thelnetham ; Hinderclay ; Lakenheath ; Brandon || :—Pakenham, *Hb. Cas.* :—Mildenhall, *Hb. Blk.* :—West Stow, *Hb. Sk.* :—Tuddenham & Wangford, *H. & S.* :—bogs near Lackford Bridge ; river near Culford, *Sir C.J.F.B.*

2. Kedington, *Dr. White.*

3. Beccles :—about Bungay, *Woodward* :—very common on Bradwell and Lound Bogs, *Wigg* :—Gorleston and Belton, *Paget* :—St. Margarets, *Holmes* :—Fritton, *Sk. ms.*

4. Redgrave Fen :—Westleton and Yoxford, *Davy* :—Snape, Farnham and Gt. Glemham, *E.N.B.*

A form with narrower leaves occurs at West Stow, at Beccles and Bardwell.

Earliest record 1804. Woodward.

69. *C. vesicaria*, *Linn.* *Bladder Carex.*

Bab. Man. 411. Hook. St. Fl. 464. H. & S. 95. Top. Bot.
Suff. E. and W. Galp. 116.

Herbaceous perennial ; in boggy places ; frequently in woods. May, June.

1. Pakenham Wood || :—Clopton Grove, Woolpit, *Hb. F.*

2. Hitcham Wood, *Hbb. Hens. & Sk.* :—Melford Hall Mill, *Sk. ms.*

3. St. Margarets, *Holmes.* 4. Badingham, *T.W.G.*

Earliest notice 1853. Prof. Henslow.

(A *Carex* occurs in Brandon Fen ||, with very narrow leaves, not involute : the spikes approach nearer to *C. vesicaria* than to *C. ampullacea*, but are narrower, paler, and more compact ; the fruit was ovoid when freshly gathered, but has become conical in drying. Another *Carex* gathered in Market

Weston Fen ||, is somewhat like the above, its leaves are slightly broader, $1\frac{1}{2}$ lines, its upper fertile spike is narrowly ovate, and the glumes acute. It is possibly a hybrid, or a form of *C. vesicaria*.

70. *C. paludosa*, Good. *Marsh Carex.*

Bab. Man. 411. Hook. St. Fl. 465. H. & S. 95. Hist. Yarm.

Top. Bot. Suff. E. and W. Galp. 116.

Herbaceous perennial; in ditches and boggy places.
Frequent in all the districts. May.

b. C. spadicea, Elw. Roth. *C. Kochiana*, Gaud.

Bab. Man. 411. Hook. St. Fl. 465.

1. Bardwell ||; Coney Weston; Ixworth Thorpe;
Brandon :—Santon Downham, *A.B.*

4. Nayland :—Rede, *Hb. Turn.*

A marked form occurs at Bardwell with very distant fertile spikes, glumes on fertile spikes very short and acute.

Earliest notice 1833. Mrs. Casborne.

71. *C. riparia*, Curt. *Great riparian Carex.*

Bab. Man. 411. Hook. St. Fl. 465, 6. H. & S. 95. Hist. Yarm.

Top. Bot. Suff. E. and W. Galp. 116.

Large herbaceous perennial; by river banks. May.

1. Thelnetham; Market Weston; Knettishall; Euston; Honington ||; Ixworth Thorpe; Bardwell; Thetford Warren; Lakenheath :—Bury, *Hb. Sk.* :—Pakenham, *Hb. Cas.* :—Mildenhall, *Sir C.J.F.B.* :—Tuddenham, *E. Sk.*

2. Polstead; Nayland; Melford :—Hitcham, *Hb. Hens.* :—Brettenham, *Hb. Rk.* :—Lit. Bradley, *Hb. F.* :—Rede, *Hb. Turn.* :—Cockfield, *W.J.* :—Clare, *C.B.*

3. Mettingham and Kessingland; Beccles :—Oulton, *E. Sk.*

4. Redgrave :—Gt. Glemham, *E.N.B.*

5. Walton; Claydon and Needham Market.

Earliest notice 1833. Mrs. Casborne.

GRAMINEÆ.

Digitaria, Scop.

[*D. sanguinalis*, Scop. *Panicum sanguinale*, Scop.

Bloody Finger Grass.

Bab. Man. 419, 20. Hook. St. Fl. App. 535.

H. & S. 95.

Annual herb; a not infrequent stray.

August.

1. Elveden, *Sir T. G. Cullum*.

3. 'In sandy places of the road between Beccles and Saxmundham, just by Sir John Rouse's house, near Henham,' *Dickson*, *Dill. Ray in Hort. Ox.*

5. 'In fields opposite the Ferry at Woodbridge,' *Crabbe*:—'Very plentiful in the sand lands at Sutton,' *H. & S.*:—'Under swallow's nest at Mr. Baker's, Battisford, 1859, 1860,' *Sk. ms.*

Earliest record 1780. *Dickson*.]

1. *D. humifusa*, *Pers.* *Panicum glabrum*, *Gaud.*
Prostrate Finger Grass.

Bab. Man. 420. Hook. St. Fl. 469. Galp. 116. Top. Bot. Suff. E.

Annual herb; in sandy fields. July, August.

1. 'Abundant in a field near Bury,—shown to me by Mr. Stock,' *Dr. Bromfield*.

3. Bungay, *Hbb. Blk. & Sutt.*

5. Ipswich, *Sir J. E. Smith*:—Shottisham, *Holmes*.

Earliest record 1800. *Sir J. E. Smith*.

Echinochloa, *Pal. de Beauv.*

[*E. Crus-galli*, *Beauv.* *Panicum Crus-galli*, *Linn.*
Loose Panic Grass.

Bab. Man. 420. Hook. St. Fl. 469, 70.

Annual herb; in waste places as a stray. July.

1. Honington. 2. Nayland ||. 3. Gorleston.

Earliest notice 1880. *Hind*.]

Setaria, *Pal. de Beauv.*

1. *S. viridis*, *Beauv.* *Green Panic Grass.*

Bab. Man. 420. Hook. St. Fl. 470. H. & S. 95. Galp. 116.
Top. Bot. Suff. E. and W.

Annual herb; in waste places. July, August.

1. Honington ||; Haughley ||:—Lakenheath, *F.K.E.*
in Hb. Cas.:—Brandon, *F.K.E. in Hb. Ly.*

2. Nayland ||.

3. Gorleston:—Bungay, *Hbb. Blk. & Sutt.*:—Homersfield, *Holmes*.

5. Fields opposite the Ferry at Woodbridge; about the sandy roads near Wickham Market, *Crabbe*:—Shottisham, *Holmes*.

Earliest record 1805. Rev. G. Crabbe.

- [*S. glauca*, Beauv. *Glaucous Panic Grass*.
 Bab. Man. 420. Hook. St. Fl. App. 535.
 Annual herb; a stray; in waste places. July, Aug.
 1. Honington. 2. Nayland ||; Stoke ||.
 Earliest record 1880. Hind.]

Spartina, Schreb.

1. *S. stricta*, Roth. *Cord Grass*.
 Bab. Man. 420, 1. Hook. St. Fl. 470, 1. H. & S. 98. Top. Bot. Suff. E.
 Herbaceous perennial; in salt marshes. August.
 5. Ipswich, above the bridge near the Railway Station;
 Aldeburgh:—about the Light-houses and the Mere, Crabbe:—
 Orford, Woodward:—Slaughden Vale, H. & S.:—Stutton ||,
 Sir C.J.F.B.:—Ramsholt, mud-banks in river Deben,
 Holmes:—Havergate Island, Dr. Jermyn:—between Land-
 guard Fort and Walton Ferry, A.B.
 Earliest record 1805. Rev. G. Crabbe.

Phalaris, Linn.

- [*P. canariensis*, Linn. *Canary Grass*.
 Bab. Man. 421. Hook. St. Fl. 471. Hist. Yarm.
 Annual herb; usually a stray; in waste places. July.
 1. Honington ||; Euston; Mildenhall:—Barton, Hb.
 Blk.:—Bury, C.B.
 2. Nayland. 3. Kirkley, Hb. Geld.
 1840? Lady Blake.]

1. *P. arundinacea*, Linn. *Common Reed Grass*.
 Bab. Man. 421. Hook. St. Fl. 472. H. & S. 96. Hist. Yarm.
 Top. Bot. Suff. E. and W. Galp. 116.
 Herbaceous perennial; in ditches. June, July.
 Frequent in all the districts.
 Earliest record 1773. Sir J. Cullum.

Anthoxanthum, Linn.

1. *A. odoratum*, Linn. *Sweet-scented Vernal Grass*.
 Bab. Man. 421, 2. Hook. St. Fl. 472. H. & S. 95. Hist. Fram.
 Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 117.

Herbaceous perennial; in meadows and woods.

May, June.

Frequent in all the districts. Large form in a wood at Wiston.

Earliest record 1773. Sir J. Cullum.

2. *A. Puellii*, *Lecoq and Lamotte. Puell's Vernal Grass.*

Bab. Man. 422. Hook. St. Fl. 472.

Annual herb; in sandy pastures.

July to Sep.

1. Hinderclay; Troston ||.

2. Rede, *Hb. Turn.*

Earliest notice 1884. Hind.

Phleum, *Linn.*

1. *P. Bœhmeri*, *Schrad. P. phalaroides*, Koch.
Bœhmer's Phleum.

Bab. Man. 422.

Hook. St. Fl. 476.

H. & S. 96.

Top. Bot. Suff. W.

Herbaceous perennial; on chalky downs; rare. July.

Eriswell || :—Mildenhall, on the northern part of the Warren Hill towards Brandon; also on the high ground beyond Barton Mills towards Herringswell, *Sir C.J.F.B.* :—Weather Heath, Lakenheath Warren, *A.B.* :—formerly on Haberden, Bury, and at Kentford, *H. & S., & F.K.E. in Hb. Ly.*

Earliest record 1850. Sir C. J. F. Bunbury.

2. *P. arenarium*, *Linn. Sand Cat's-tail Grass.*

Bab. Man. 422.

Hook. St. Fl. 476.

H. & S. 96.

Hist. Bury.

Top. Bot. Suff. E. and W.

Annual herb; on sandy heaths and sea-shores,

May to July.

1. Barnham Heath ||; Troston ||; Elveden; Cavenham; Brandon; Santon Downham; Icklingham; West Stow; Culford Heath; Fakenham :—Old Walls, Bury, *Hb. Sk.* :—Mildenhall, *Hb. Cas.* :—Newmarket and Tuddenham, *H. & S.* :—Wordwell, *Hist. Bury* :—Thetford, *F.K.E. in Hb. Ly.*

3. Lowestoft Denes.

4. Dunwich :—Thorpe, *H. & S.*

5. Felixstowe; Walton and Sudbourne, *H. & S.*

Earliest record 1773. Sir J. Cullum.

3. *P. pratense*, Linn. *Timothy Grass.*

Bab. Man. 422.3. Hook. St. Fl. 475. H. & S. 96. Hist. Yarm.
 Top. Bot. Suff. E. and W. Galp. 117.

Herbaceous perennial; in meadows and pastures.

Frequent in all the districts.

June.

b. P. stoloniferum, Bab.

Bab. Man. 423. Hook. St. Fl. 475.

1. Honington ||.

c. P. præcox, Jord.

Bab. Man. 423.

1. Cavenham ||.

P. nodosum, Linn.

Hook. St. Fl. 475. Galp. 117.

1. Honington; Brandon; Barton Mills || :—Barton,

Hb. Blk. :—Pakenham, *Hb. Cas.* :—Livermere, Gray.

3. Homersfield, *H.B.C.*

Earliest record 1775. Sir J. Cullum.

Alopecurus, Linn.

1. *A. pratensis*, Linn. *Meadow Fox-tail Grass.*

Bab. Man. 423. Hook. St. Fl. 474. H. & S. 96. Hist. Yarm.
 Top. Bot. Suff. E. and W. Galp. 117.

Herbaceous perennial; in meadows. April to June.

Frequent in all the districts.

Earliest record 1773. Sir J. Cullum.

3. *A. geniculatus*, Linn. *Kneed Fox-tail Grass.*

Bab. Man. 423. Hook. St. Fl. 474. H. & S. 96. Hist. Yarm.
 Top. Bot. Suff. E. and W. Galp. 117.

Herbaceous perennial; in wet ditches and pools.

June, July.

A. pronus, Mitt.

Hook. St. Fl. 474.

1. Troston.

Frequent in all the districts.

Earliest notice 1834. Paget.

4. *A. fulvus*, Sm. *Tawny Fox-tail Grass.*

Bab. Man. 423.4. Hook. St. Fl. 474. H. & S. 96. Top. Bot.
 Suff. W.

Herbaceous perennial; on wet margins of pools.

June to September.

1. 'Pool in lane between Mrs. Carss', Welnetham and Linkwood, May, 1864,' *Sk. ms.* Pool near Sicklesmere, *H. & S.* 1860. Henslow and Skepper.

5. *A. bulbosus*, *Linn.* *Bulbous Fox-tail Grass.*

Bab. Man. 424. Hook. St. Fl. 474. *H. & S.* 96. Top. Bot.

Suff. E.

Herbaceous perennial; in salt marshes. June.

3. 'Most abundant in marshes by the riverside at Belton and Burgh Castle,' *Wigg & Woodward in M.M.*:—Breydon Marshes, *Paget*:—Southtown Marshes, *W.M. Crowfoot*.

Earliest record 1797. Woodward.

6. *A. agrestis*, *Linn.* *Slender Fox-tail Grass.*
Black Grass.

Bab. Man. 424. Hook. St. Fl. 473. *H. & S.* 96. Hist. Fram.

Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 117.

An annual weed; in pastures and ploughed land.

April to November.

1. Honington ||; Ixworth Thorpe; Onehouse; Brandon; Eriswell:—Bury, *Hb. Sk.*:—Barton and Mildenhall, *Sir C.J.F.B.*:—Hardwick, *E. Sk.*:—Bradfield, *Hb. Ly.*

2. Nayland:—Hitcham, *Hb. Hens.*:—Haverhill, *Hb. F.*:—Rede, *Hb. Turn.*:—Kersey, *E.F.L.*

3. Lake Lothing; Beccles:—Bungay, *Stock*:—Lowestoft, *Sk. ms.*

4. Botesdale; Peasenhall; Westleton:—Framlingham, *Crabbe*:—Gt. Glemham, *E.N.B.*

5. Grundisburgh, *T.H.*

Earliest record 1798. Rev. G. Crabbe.

Nardus, *Linn.*

1. *N. stricta*, *Linn.* *Common Mat Grass.*

Bab. Man. Suff. 424. Hook. St. Fl. 505. *H. & S.* 99. Hist. Fram.

Hist. Yarm. Top. Bot. Suff. E. and W.

Herbaceous perennial; on heaths.

July.

1. Elveden; Barnham; Euston; Knettishall:—Mildenhall, *Hb. Blk.*:—Troston Heath ||, *Hb. Cas.*:—West Stow, *Hb. Sk.*:—Tuddenham, *H. & S.*:—Brandon *Sk. ms.*

3. Bungay, *Stock*:—Belton, *Paget*:—Lowestoft, *H. & S.*:—Benacre, *Sk. ms.*

4. Dunwich; Westleton; Sizewell:—Framlingham, *Crabbe*:—Snape, *E.N.B.*

Earliest record 1773. Sir J. Cullum.

Milium, *Linn.*

1. *M. effusum*, *Linn.* *Spreading Millet Grass.*
Bab. Man. 425. *Hook. St. Fl.* 475. *H. & S.* 95. *Hist. Yarm.*
Top. Bot. Suff. E. and W.

Herbaceous perennial; in damp shady woods. June.

1. Stanton ||; Ixworth Thorpe; Fakenham Wood;
 Hinderclay:—Pakenham, *Hb. Cas.*:—Woolpit, *Hb. F.*:—
 Hardwick, *Hb. Sk.*:—Gedding and Felsham, *Sk. ms.*:—
 Hessel, *F.K.E. in Hb. Ly.*

2. Wiston ||:—Cockfield, *C.B.*:—Hitcham, *Hb. Hens.*:—
 Lidgate, *Hb. Cas.*:—Rede, *Hb. Turn.*

3. Fritton Decoy, *Sk. ms.* 4. Gt. Glemham, *E.N.B.*

Earliest notice 1830. Mrs. Casborne.

Phragmites, *Trin.*

1. *P. communis*, *Trin.* *Common Reed.*
Bab. Man. 425. *Hook. St. Fl.* 487. *H. & S.* 103. *Hist. Yarm.*
Top. Bot. Suff. E. and W. *Galp.* 119.

Tall herbaceous perennial; in marshes and ditches.

Frequent in all the districts.

August.

Earliest record 1773. Sir J. Cullum.

Psamma, *Pal. de Beauv.*

1. *P. arenaria*, *R. & S.* *Ammophila arundinacea.* *Host.*
Marram. Bent.

Bab. Man. 425. *Hook. St. Fl.* 481. *H. & S.* 97. *Hist. Yarm.*
Top. Bot. Suff. E.

Herbaceous perennial; on the sandy sea-shore. July.

3. Kessingland and Southwold:—Lowestoft, *Hb. Cas.*:—
 Pakefield, *Hb. Sk.*

4. Dunwich ||:—Sizewell and Thorpe, *E.N.B.*

5. Aldeburgh:—Felixstowe, *W.J.*

Earliest notice 1597. Gerarde.

Calamagrostis, *Adans.*

1. *C. lanceolata*, *Roth.* *Purple Small Reed.*
Bab. Man. 426. *Hook. St. Fl.* 479. *H. & S.* 97.
Top. Bot. Suff. W.

Herbaceous perennial ; in boggy places and coppices. July.

1. Ixworth Thorpe Carr || :—Mildenhall, *Hb. Rk.* :—Lakenheath, *H. & S.* :—Drinkstone, *Sk. ms.*

2. Hitcham, *Prof. Hens.* :—Naughton Wood, *H. & S.*

3. Fritton Decoy and Worlingham :—Bungay ; North Cove and Covehithe, *Holmes.*

Earliest notice 1852. Prof. Henslow.

2. *C. epigejos*, *Roth.*

Wood Small Reed.

Bab. Man. 426.

Hook. St. Fl. 478,9.

H. & S. 97.

Top. Bot. Suff. E. and W.

Herbaceous perennial ; in woods.

July.

1. Hardwick, *Hb. Sk.* :—in several plantations at Mildenhall, *Hb. Blk.* :—Barton Mills, *Rev. F. Tearle* :—in the Hyde at Westley ; Drinkstone, *H. & S.* :—Felsham ; Culford and West Stow Woods, *Sk. ms.* :—Santon Downham, *Norgate.*

2. Hitcham, *Herb. Hens.* :—Rede, *Hb. Turn.* :—Cockfield, *W.J.*

3. Bungay, *Stock.*

Earliest notice 1835. D. Stock.

Apera, *Adans.*

1. *A. Spica-venti*, *Beauv.*

Silky Wind Grass.

Bab. Man. 426.

Hook. St. Fl. 480.

H. & S. 97.

Top. Bot. Suff. E. and W.

Annual herb ; in sandy places.

June, July.

1. Barnham || ; 'Cavenham, 7 miles from Bury, and near the 8th mile-stone between Bury and Newmarket, on the right-hand side of the road leading from Bury,' *Rev. R. Relhan* :—Mildenhall, *Hb. Blk.* :—Tuddenham, *Hb. Sk.* :—Eriswell, *Sir C.J.F.B.* :—Thetford, *Cyb. Brit.* :—Lakenheath, *H. & S.* :—between East and North Gates, Bury ; Hawstead, *Sk. ms.*

3. Benacre ; Covehithe, *Sk. ms.* :—Southwold, *Holmes* :—Gorleston, *Phyt.* 1862.

4. Snape, *Crabbe & E.N.B.* :—Gt. Glemham, *E.N.B.*

5. Blaxhall, *Crabbe* :—Bromeswell, *Ms. Davy* :—Felixstowe, *H. & S.* :—Landguard Fort.

Earliest record 1785. Rev. R. Relhan.

2. *A. interrupta*, Beauv. *Interrupted Wind Grass.*

Bab. Man. 426. Hook. St. Fl. 480. H. & S. 97. Galp. 118.

Top. Bot. Suff. E. and W.

Annual herb; in sandy fields.

June, July.

1. Fakenham ||; Sapiston ||; Barnham; Euston; Honington; Barton Mills :—Mildenhall, *C.B.* :—Redneck Heath, near Thetford, *Rev. W. W. Newbould* :—Bury, *Hb. Sk.* :—Tuddenham Heath, *W.J.* :—Rushford, *E.F.L.* :—Higham; West Stow; near Railway-arch, Newmarket-road, *Sk. ms.* :—Thetford Heath, in plenty, *A.B.*

2. Rede, *Hb. Turn.*

3. Between Homersfield and St. Cross, *Galp.*

4. Westleton Heath ||.

Earliest record 1848. Newbould.

Agrostis, Linn.

2. *A. canina*, Linn. *Brown Bent Grass.*

Bab. Man. 427. Hook. St. Fl. 477. H. & S. 96. Hist. Yarm.

Top. Bot. Suff. E. and W. Galp. 117.

Herbaceous perennial; on heaths.

July, August.

1. Hopton ||; Troston; Eriswell :—Tuddenham, *Hb. Sk.* :—Mildenhall, *Sir C.J.F.B.*

3. Lowestoft, *E. Sk.*

4. Snape, *E.N.B.* :—Weybread, *Galp* :—Thorpe.

Earliest record 1834. Paget.

3. *A. vulgaris*, With. *Common Bent Grass.*

Bab. Man. 427. Hook. St. Fl. 477. H. & S. 96. Hist. Yarm.

Top. Bot. Suff. E. and W. Galp. 117.

Herbaceous perennial; in dry pastures.

July.

Common in all the districts.

b. A. pumila, Lightf.

Bab. Man. 427. Hook. St. Fl. 477.

1. Honington; Ixworth Thorpe :—Bury, *Hb. Sk.*

4. Westleton Heath ||.

Earliest record 1773. Sir J. Cullum.

4. *A. alba*, Linn. *White Bent Grass.*

Bab. Man. 427. Hook. St. Fl. 477, 8. H. & S. 96. Hist. Yarm.

Top. Bot. Suff. E. and W. Galp. 117.

Herbaceous perennial; in meadows and pastures.

Frequent in all the districts.

July.

- b. *A. subrepens*, Bab. *A. Stolonifera*, Linn.

Bab. Man. 427. Hook. St. Fl. 478.

3. Lowestoft Denes || ; Kessingland.

- ## 5. Claydon.

A stunted form with irregular panicle occurs on Westleton Heath ||.

Earliest notice 1834. Paget.

Holcus, *Linn.*

- i. *H. lanatus*, Linn. *Common Soft Grass.*
Yorkshire Fog.

Bab. Man. 428. Hook. St. Fl. 483,4. H. & S. 98. Hist. Yarm.

- Top. Bot. Suff. E. and W. Galp. 118.

Perennial herb ; in meadows.

Common in all the districts.

Earliest record 1775. Sir J. Cullum.

2. *H. mollis*, Linn. *Creeping Soft Grass.*

Bab. Man. 428. Hook. St. Fl. 484. H. & S. 98. Hist. Yarm.

- Top. Bot. Suff. E. and W. Galp. 118.

Herbaceous perennial; in woods and gravelly places.

In all the districts.

July.

Earliest notice 1830. Mrs. Casborne.

Corynephorus, *Pal. de Beauv.*

1. *C. canescens*, *Beaur.* *Grey Corynephorus.*

Bab. Man. 428,9. Hook. St. Fl. 482. H. & S. 97. Galp. 118.

- Top. Bot. Suff. E.

Small herbaceous perennial; on sandy coast, rarely inland. June, July.

1. Between Lakenheath and Wangford, *G. C. Druce*
and *Bolton King*:—Lackford Heath, *G. C. Druce*, 1883.

3. Benacre, *Hb. Sk.* :—near Easton Broad; between Covehithe and Pakefield, *Holmes* :—Lowestoft Denes, *A.B.* :—Homersfield, fairly abundant on a bed of post-glacial gravel on South side of the Waveney Valley, *H.B.C.*

Earliest notice 1800. Sir J. E. Smith.

Aira, *Linn.*

1. *A. cæspitosa*, Linn. *Deschampsia cæspitosa*, Beauv.
Tufted Hair Grass.

Bab. Man. 429. Hook. St. Fl. 483. H. & S. '97. Galp. 118.
 Top. Bot. Suff. E. and W.

Tall herbaceous perennial; in wet fields and ditches.
 Common in all the districts. July.
 Earliest notice 1850.

2. *A. flexuosa*, Linn. *Deschampsia flexuosa*, Trin.
Wavy Hair Grass.

Bab. Man. 429. Hook. St. Fl. 483. H. & S. 97.
 Top. Bot. Suff. E. ?

Herbaceous perennial; in heathy places; comparatively rare in Suffolk. July.

1. Fakenham; small heath between Barningham Park and Rushford Bridge || :—Rougham, *Sir C.J.F.B.*

2. Rede, *Hb. Turn.*

5. Ipswich, 'occasionally,' *H. & S., fide Ips. Fl.*

Earliest notice 1773. Sir J. Cullum.

4. *A. caryophylla*, Linn. *Silvery Hair Grass.*

Bab. Man. 430. Hook. St. Fl. 482. H. & S. 98. Hist. Yarm.
 Top. Bot. Suff. E. and W. Galp. 118.

Small annual herb; on sandy heaths. May.

1. Troston ||; Culford Heath; Barningham Park; Eriswell; Elveden :—Stowlangtoft, *Hb. Dun.* :—Tuddenham, *Hb. Sk.* :—Barton and Mildenhall, *Sir C.J.F.B.* :—Risby Heath, *W.J.* :—Thurston; Westley; West Stow, *Sk. ms.*

2. Rede, *Hb. Turn.*

3. Covehithe :—Lake Lothing; Lowestoft, *E. Sk.* :—Mendham Pit, *Galp.*

4. Redgrave; Dunwich; Westleton and Thorpe :—Homersfield Heath, *Galp.* :—Gt. Glemham, *E.N.B.*

5. Aldeburgh and Orford.

Earliest record 1775. Sir J. Cullum.

5. *A. præcox*, Linn. *Early Hair Grass.*

Bab. Man. 430. Hook. St. Fl. 482. H. & S. 98. Hist. Fram.
 Top. Bot. Suff. E. and W. Galp. 118.

Small annual herb; on sandy heaths and pastures.

Frequent in all the districts. April, May.

Earliest record 1773. Sir J. Cullum.

Trisetum, Pers.

1. *T. flavescens*, Beauv. *Yellow Oat Grass.*

Bab. Man. 430. Hook. St. Fl. 484. H. & S. 98. Hist. Yarm.
 Top. Bot. Suff. E. and W. Galp. 118.

Herbaceous perennial; in meadows and pastures. July.

1. Barnham ||; Fakenham; Honington; Sapiston;
 Ixworth Thorpe; Cavenham; Mildenhall:—Barton, *Hb. Blk.*:
 —Hardwick, *Hb. Sk.*:—Stowlangtoft, *Hb. Rk.*:—Barning-
 ham, *E.F.L.*:—Tuddenham, *E. Sk.*

2. Melford:—Hitcham, *Hb. Hens.* —Rede, *Hb. Turn.*:
 —Kersey, *E.F.L.*:—Cockfield, *W.J.*

3. Bradwell and Kessingland:—Lowestoft, *E. Sk.*

4. Thorpe; Dunwich and Westleton:—Gt. Glemham,
 &c., *E.N.B.*

5. Shrubland Park; Aldeburgh and Orford.

Earliest record 1773. Sir J. Cullum.

Avena, Linn.

1. *A. fatua*, Linn. *Wild Oat.*

Bab. Man. 430. Hook. St. Fl. 484, 5. H. & S. 98 Hist. Fram.

Top. Bot. Suff. E. and W. Galp. 118.

Annual weed; in cultivated fields. July.

1. Barnham ||; Haughley ||; Honington; Ixworth
 Thorpe; Lakenheath:—Barton, *Hb. Blk.*:—Bury, *Hb. Sk.*

2. Melford:—Hitcham, *Hb. Hens.*:—Cockfield, *W.J.*

3. Kessingland:—between Beccles and Mutford, *D.*
 Turner:—St. Margarets, *Galp.*

4. Stuston:—Gt. Glemham, *E.N.B.*

5. Stutton:—Grundisburgh, *T.H.*

A. pilosissima, Gray.

Lond. Cat. 1683.a.

1. Haughley.

2. Wiston.

4. Stuston.

A. intermedia, Lindgr.

Lond. Cat. 1683.b.

3. Kessingland.

Earliest record 1805. Dawson Turner.

†2. *A. strigosa*, Schreb. *Lean Oat.*

Bab. Man. 430. Hook. St. Fl. 485. H. & S. 98.

Annual weed; in cultivated fields. July.

1. Honington ||; Sapiston; Bardwell:—Vine Fields,
 Bury, *Hb. Sk.*

4. Carlton. 5. Ipswich.

Earliest record 1860. E. Skepper.

3. *A. pratensis*, Linn. *Meadow Oat.*

Bab. Man. 430, 1. Hook. St. Fl. 485. H. & S. 98. Galp. 118.

Top. Bot. Suff. E. ? and W.

Herbaceous perennial ; in heathy pastures. June.

1. Risby Heath || ; Fakenham || ; Barton Mills :—
'Between Newmarket and Exning,' Ray :—Barton, *Hb. Blk.* :—Hardwick, *Hb. Sk.* :—Mildenhall and Eriswell, *Sir C.J.F.B.* :—Newmarket Heath, *W.J.* :—Fakenham ||.

2. Long Melford.

3. St. Margaret's (E.A.H.), *Galp.* 5. Ipswich.

Earliest record 1696. Ray.

4. *A. pubescens*, Linn. *Downy Oat.*

Bab. Man. 431. Hook. St. Fl. 485. H. & S. 98. Galp. 118.

Top. Bot. Suff. W.

Herbaceous perennial ; in sandy pastures and meadows.

June.

1. Honington || ; Barnham || ; Elveden ; Euston :—
Risby Heath, *C.B.* :—Barton Park, *Hb. Blk.* :—Bury, *Hb. Sk.* :—Barningham, *E.F.L.* :—Santon Downham, *Sk. ms.*

2. Nayland, *Gray* :—Cockfield, *W.J.* :—Lit. Thurlow, *Hb. F.*

3. St. Cross, *Holmes.* 5. Grundisburgh, *T.H.*

Earliest record 1773. Sir J. Cullum.

Arrhenatherum, *Pal. de Beauv.*

1. *A. elatius*, M. & K. *A. avenaceum*, Beauv.

Tall Oat-like Grass.

Bab. Man. 431. Hook. St. Fl. 485, 6. * H. & S. 98. Hist. Yarm.

Top. Bot. Suff. E. and W. Galp. 119.

Herbaceous perennial ; in hedges and on banks.

Common in all the districts.

June.

A. nodosum, Lindl.

Bab. Man. 431. Hook. St. Fl. 486. Galp. 119.

3. Near Weybread House, *Galp.*

5. Bawdsey || ; Felixstowe.

Earliest record 1773. Sir J. Cullum.

Triodia, *R. Brown.*

1. *T. decumbens*, Beauv. *Sieglingia decumbens*, Bernh.

Decumbent Heath Grass.

Bab. Man. 431. Hook. St. Fl. 486. H. & S. 103. Hist. Yarm.
 Top. Bot. Suff. E. and W. Galp. 119.

Herbaceous perennial; in dry heaths and pastures.
 July.

1. Troston ||; Hopton || :—Lackford, *Hb. Blk.* :—Barton, *Sir C.J.F.B.* :—West Stow and Tuddenham, *H. & S.* :—Bury, *Sk. ms.*

2. Cockfield, *C.B.* :—Hitcham, *Hb. Hens.* :—Rede, *Hb. Turn.*

3. Lowestoft, *Hb. Sk.* :—Bungay, *Stock* :—Belton Bog, *Paget* :—Corton, *H. & S.* :—St. Margarets (E.A.H.), *Galp.*

4. Redgrave Fen; Westleton; Walberswick :—Gt. Glemham and Snape, *E.N.B.*

5. Thorpe Heath.

Earliest record 1834. *Paget.*

Koeleria, Pers.

1. *K. cristata*, Pers.

Crested Hair Grass.

Bab. Man. 431, 2. Hook. St. Fl. 488. H. & S. 103. Galp. 119.
 Top. Bot. Suff. E. and W.

Herbaceous perennial; in sandy meadows and pastures.
 June, July.

1. Barnham ||; Elveden ||; Brandon; Thetford; Euston; Fakenham; Honington; Bury :—Ampton, *Hb. Sk.* :—Barton, *Hb. Blk.* :—Stowlangtoft, *Hb. Rk.* :—Livermere, *Gray* :—Mildenhall, *J. Townsend* :—Icklingham, *W.J.* :—Tuddenham, *H. & S.* :—Risby Heath and Santon Downham, *Sk. ms.*

3. Bungay, *Stock* :—St. Margarets (E.A.H).

5. Blaxhall Heath, *E.N.B.*

K. gracilis, Boreau.

Lond. Cat. 1691.

1. Brandon ||; Fakenham; Elveden.

Earliest record 1835. *D. Stock.*

Melica, Linn.

1. *M. uniflora* Retz.

One-flowered Melic Grass.

Bab. Man. 432. Hook. St. Fl. 490. H. & S. 103. Top. Bot.
 Suff. E. and W.

Herbaceous perennial; in woods and shady banks.

May, June.

1. Felsham, *C.B.* :—Dalham, *Hb. Cas.* :—Hardwick, *Hb. Sk.* :—Pakenham, *Hb. Cas.* :—Wetherden :—Gedding, *H. & S.* :—Bradfield, *Hb. Ly.*

2. Wiston || ; Polstead :—Hitcham, *Hb. Hens.* :—Nayland, *Gray* :—Cockfield, *W.J.*

3. Bungay, *H. & S.* :—Flixton, *Sk. ms.*

4. Westleton Decoy || ; Burgate Wood :—Gt Glemham, *H. & S.* :—‘among trees by Cransford,’ *Hist. Fram.* —‘Woods at Sweffling and North Glemham and elsewhere,’ *B.G., Crabbe.*

5. Bergholt, *H. & S.*

Earliest record 1798. Rev. G. Crabbe.

[2. *M. nutans*, *Linn.*

Nodding Melic.

Bab. Man. 432. Hook. St. Fl. 490. Hist. Fram.

Herbaceous perennial ; in woods—a Northern and West of England species. The Rev. G. Crabbe is the principal authority for it in Suffolk. As *M. uniflora* was formerly included in *M. nutans*, there can be no doubt that the former plant is the one which he had in view. Later authors have overlooked this, and have accepted *M. nutans* as a Suffolk plant through inadvertence. The localities given below really belong to *M. uniflora*, and are given under that species. The mention in Lowe’s British Grasses arose from a misinterpretation of older authorities.

1. Felsham and Gedding, *Sk. ms.* Corrected in *H. & S.*

4. ‘Among trees by Cransford,’ *Crabbe in Hist. Fram.* ; ‘Woods at Sweffling, and North Glemham, and elsewhere in that county,’ *Crabbe in B.G., Suffolk.*—‘*Lowe’s British Grasses.*’]

Molinia, *Schrank.*

1. *M. cærulea*, *Mæsch.*

Purple Molinia.

Bab. Man. 432. Hook. St. Fl. 489. H. & S. 103. Hist. Yarm. Top. Bot. Suff. E. and W.

Herbaceous perennial ; on wet heaths and bogs.

July, August.

1. Livermere || ; Ixworth Thorpe ; Euston ; Hopton :—Pakenham Fen, *Hbb. Cas. & Dun.* :—Tuddenham, *Hb. Sk.* :—West Stow, *H. & S.* :—Felsham, *Sk. ms.*

3. Belton ; Lound ; Carlton Colville :—Lowestoft, *H. & S.* :—Benacre, *Sk. ms.*

4. Redgrave Fen :—Westleton, *T.W.G. & E.N.B.*

b. M. depauperata, Lindl.

Bab. Man. 432. Hook. St. Fl. 489.

1. Lakenheath ||.

c. M. major, Bab.

Bab. Man. 432.

3. In a boggy copse at Lound ||.

Earliest record 1834. Paget.

Poa, Linn.

1. *P. annua*, Linn. *Annual Meadow Grass.*

Bab. Man. 432. Hook. St. Fl. 491. H. & S. 102. Hist. Yarm.

Top. Bot. Suff. E. and W. Galp. 120.

Annual herb; nearly everywhere. March to Sep.

Common in all the districts. 'There are whole fields of it in Suffolk, where it is called Suffolk Grass,' *Dill. Ray in Hort. Ox.*

Earliest record 1773. Sir J. Cullum.

2. *P. bulbosa*, Linn. *Bulbous Meadow Grass.*

Bab. Man. 432,3.

Hook. St. Fl. 493,4.

H. & S. 103.

Top. Bot. Suff. E.

Herbaceous perennial; sandy denes and pastures near the sea. April, May.

3. Lowestoft Denes, *Sir J. E. Smith* :—Southwold Common, *Holmes*.

5. Felixstowe Common || :—Aldeburgh, *E. Forster*, *jun.* :—Mouth of the Deben, *Holmes*.

Earliest record 1804. Sir J. E. Smith.

7. *P. nemoralis*, Linn. *Wood Meadow Grass.*

Bab. Man. 434. Hook. St. Fl. 492,3. H. & S. 102. Galp. 120.

Top. Bot. Suff. E. and W.

Herbaceous perennial; in woods and shady lanes.

June, July.

1. The Grundle, Stanton ||, *Hb. Sk.* :—Felsham, *Dr. White* :—Hardwick, *Hb. Ly.*

2. Nayland; Wiston ||.

3. Bungay, H. & S. :—Flixton, *Galp.*

4. Nichol's Hill, Mendham, *Galp.*

Earliest record 1860. Dr. White.

10. *P. trivialis*, Linn. *Rough Meadow Grass.*

- Bab. Man. 434. Hook. St. Fl. 492. H. & S. 102. Hist. Yarm.
 Top. Bot. Suff. E. and W. Galp. 120.
 Herbaceous perennial ; in shady places. June.
 Frequent in all the districts.
 Earliest record 1773. Sir J. Cullum.

11. *P. pratensis*, L. *Common Meadow Grass.*

- Bab. Man. 435. Hook. St. Fl. 492. H. & S. 102. Hist. Yarm.
 Top. Bot. Suff. E. and W. Galp. 120.
 Herbaceous perennial ; in meadows and pastures.
 Frequent in all the districts. June, July.

b. P. subcærulea, Sm.

- Bab. Man. 435. Hook. St. Fl. 492.
 1. Barton, *Hb. Blk.* 5. Felixstowe ||.

P. strigosa, Gaud.

Hook. St. Fl. 492.

1. Brandon ||.

Earliest record 1773. Sir J. Cullum.

12. *P. compressa*, Linn. *Flat Meadow Grass.*

- Bab. Man. 435. Hook. St. Fl. 492. H. & S. 92. Hist. Yarm.
 Top. Bot. Suff. E. and W. Galp. 120.
 Herbaceous perennial ; in dry places. July.
 1. Thetford || :—Bury, *Hb. Sk.* :—Mildenhall ||, *Hb. Blk.* :—Barton, *Sir C.J.F.B.* :—Barnham.
 2. Hitcham, *Prof. Hens.* :—Kersey, *E.F.L.*
 3. Bungay, *Stock.* 4. Mendham, *H.B.C.*
 Earliest record 1860. E. Skepper.

Glyceria, R. Brown.

1. *G. aquatica*, Sm. *Reed Meadow Grass.*

- Bab. Man. 435. Hook. St. Fl. 494. H. & S. 101. Hist. Yarm.
 Top. Bot. Suff. E. and W. Galp. 120.
 Tall herbaceous perennial ; in streams and ditches.

July.

1. Knettishall || ; Sapiston ; Honington ; Ixworth
 Thorpe ; Bardwell ; Livermere ; Barton Mills ; Tuddenham
 and Lakenheath :—Bury, *Hb. Sk.* :—Hengrave, *Hb. Blk.* :—
 Pakenham Fen, *Hbb. Cas. & Rk.* :—Mildenhall, *Sir C.J.F.B.*
 2. Nayland and Melford :—Rede, *Hb. Turn.* :—What-

field, *E.F.L.* :—Melford ; Sudbury and Clare, *C.B.*

3. Oulton Broad ; Burgh Castle ; St. Olave's Bridge ; Kessingland :—Somerleyton and Lowestoft, *H. & S.* :—Becles, *Sk. ms.*

4. Bank of Upper Waveney :—Mendham, *Galp.*

5. Stutton :—Grundisburgh, *T.H.* :—sides of Gipping, *Ips. Fl.*

Earliest notice 1773. Sir J. Cullum.

2. *G. fluitans*, *R. Brown.*

Flote Grass.

Bab. Man. 435,6. Hook. St. Fl. 494. *H. & S.* 102. Hist. Yarm.

Top. Bot. Suff. E. and W. *Galp.* 120.

Herbaceous perennial ; in shallow ponds and ditches.

Common in all the districts. June to September.

b. G. pedicellata, Towns.

Bab. Man. 436. Hook. St. Fl. 494.

1. Mildenhall Fen ; Fakenham || ; Bardwell.

2. Wickhambrook.

4. Redgrave ||.

5. Catawade ||.

Earliest notice 1834. Paget.

3. *G. plicata*, *Fries.*

Plicate Flote Grass.

Bab. Man. 436. Hook. St. Fl. 494. *Galp.* 120. Top. Bot.

Suff. E. and W.

1. Ixworth Thorpe || :—Santon Downham :—Tuddenham, *E. Sk.*

3. Kessingland :—Oulton, *E. Sk.* :—St. Margarets and St. Cross (E.A.H.), *Galp.*

5. Grundisburgh, *T.H.*

Earliest record about 1862. E. Skepper.

Sclerochloa, *Pal. de Beauv.*

1. *S. maritima*, *Lindl.*

Glyceria maritima, Wahl.

Sea Sclerochloa.

Bab. Man. 436. Hook. St. Fl. 495. *H. & S.* 102. Hist. Yarm.

Top. Bot. Suff. E.

Herbaceous perennial ; in moist ground by the sea-coast. June, July.

3. Beside Lake Lothing :—Lowestoft, *Hb. Sk.*

4. Blythburgh || ; Dunwich.

5. Stutton and Ipswich :—Felixstowe ||, *Hb. Blk.* :—Orford, *E.N.B.*

b. S. hispida, Parn.

Bab. Man. 436. Hook. St. Fl. 495.

5. Felixstowe ||.

Earliest notice 1834. Paget.

2. *S. Borreri*, Bab. *Glyceria Borreri*, Bab.
Borrer's Sclerochloa.

Bab. Man. 436,7.

Hook. St. Fl. 495.

Top. Bot. Suff. E.

Newb. ms. 1869.

Herbaceous perennial; on muddy sea-shore.

June to August.

3. Breydon Water, *W.J.*

4. Between Dunwich and Walberswick, *Holmes*.

5. Walton, *F.K.F. in Hb. Ly.*

Earliest notice 1869. Newbould.

3. *S. procumbens*, Beauv. *Festuca procumbens*, Kunth.
Procumbent Sclerochloa.

Bab. Man. 437.

Hook. St. Fl. 495.

H. & S. 102.

Hist. Yarm.

Top. Bot. Suff. E.

Annual herb; on muddy sea-shores. June July.

3. Burgh Castle, *C.B.*:—Breydon Marshes, *Paget*:—
Lowestoft *Hb. Geld*.

5. Catawade ||; Stutton:—Orford, *E.N.B.*:—Wood-
bridge, *F.K.E. in Hb. Ly.*

Earliest record 1834. Paget.

4. *S. distans*, Bab. *Glyceria distans*, Wahl.
Distant Sclerochloa.

Bab. Man. 437. Hook. St. Fl. 495. H. & S. 102. Top. Bot. Suff. E.?

Herbaceous perennial; on sea-shores and sandy places.

June to August.

1. Culford Heath, *Gray*.

3. Lowestoft, *Hb. Sk.*:—Southwold, *Holmes*.

4. Blythburgh ||.

5. Aldeburgh, *Hb. Blk.*:—Salt-marsh, Felixstowe,
C.B.

Earliest notice 1850. Lady Blake.

5. *S. rigida*, Link. *Festuca rigida*, Kunth.

Bab. Man. 437.

Hook. St. Fl. 498.

H. & S. 102.

Hist. Yarm.

Top. Bot. Suff. E. and W. Galp. 120.

Annual herb; in sandy soil and on walls.

June.

1. Honington ||; Fakenham; Knettishall; Ixworth; Troston; Fornham St. Martin and All Saints; Thetford; Brandon; Kentford:—Bury, *Hb. Sk.*:—Barton, *Hb. Blk.*:—Mildenhall, *Sir C.J.F.B.*:—Tuddenham, *E. Sk.*

2. Hitcham, *Hb. Hens.*:—Rede, *Hb. Turn.*:—Cockfield, *W.J.*

3. Lowestoft, *E. Sk.*:—St. Cross School-ground (E.A.H.); Flixton, *Galp.*

4. Walberswick:—Framlingham & Rendham, *E.N.B.*

5. Otley, *E.N.B.*:—Grundisburgh, *T.H.*:—Felixstowe, *Purchas.*

Earliest record 1773. Sir J. Cullum.

6. *S. loliacea*, Woods. *Festuca loliacea*, Huds.
Dwarf sea-side Sclerochloa.

Bab. Man. 437.

Hook. St. Fl. 498, 9.

H. & S. 102.

Top. Bot. Suff. E.

Annual herb; on sandy sea-shores.

June, July.

3. Southwold, *Hb. Blk.*:—Lowestoft, *Hb. Sk.*:—Gorleston, *E. Forster, jun.*:—Pakefield Cliff, *Sk. ms.*

4. Dunwich ||; Walberswick.

5. Felixstowe:—Landguard Fort, *Dr. Goodenough*:—Aldeburgh, *E.N.B.*:—Bawdsey, *G.R.L. in Hb. Salm.*

Earliest record 1800. Dr. Goodenough.

Briza, Linn.

2. *B. media*, Linn. *Common Quaking Grass.*

Bab. Man. 438.

Hook. St. Fl. 491.

H. & S. 101.

Hist. Yarm.

Top. Bot. Suff. E. and W.

Herbaceous perennial; in meadows and pastures.

Frequent in all the districts.

June.

Earliest notice 1834. Paget.

Catabrosa, *Pal. de Beauv.*

1. *C. aquatica*, Beauv. *Whorl Grass.*

Bab. Man. 438.

Hook. St. Fl. 489.

H. & S. 103.

Hist. Yarm.

Top. Bot. Suff. E. and W.

Galp. 119.

Herbaceous perennial; in shallow streams and ditches.

June, July.

1. Honington ||; Bardwell; Ixworth Thorpe:—Pakenham, *Hbb. Cas. & Rk.*:—Mildenhall, *Sir C.J.F.B.*:—Tud-

denham and Bury, *E. Sk.* :—Hengrave, *H. & S.* :—Drinkstone, *Hb. F.*

2. Near Flatford Mill, *Dr. White.*

3. Bungay, *H. & S.* :—Lowestoft, *Sk. ms.*

4. Eye||:—Gt. Glemham, *E.N.B.* :—Mendham Old Priory, *Galp.*

5. Felixstowe, *Purchas.*

Earliest notice 1773. Sir J. Cullum.

Cynosurus, Linn.

1. *C. cristatus*, Linn. *Crested Dogstail Grass.*

Bab. Man. 438. Hook. St. Fl. 488. H. & S. 101. Hist. Yarm.

*Top. Bot. Suff. E. and W. Galp. 119.

Herbaceous perennial; in pastures. July, August.

Common in all the districts.

Earliest record 1773. Sir J. Cullum.

[*C. echinatus*, Linn. *Rough Dogstail Grass.*

Bab. Man. 438. Hook. St. Fl. 488.

Annual, from Channel Islands; only a chance stray in Suffolk.

3. Lowestoft, *Hb. Sk.* E. Skepper.]

Dactylis, Linn.

1. *D. glomerata*, Linn. *Cock's-foot Grass.*

Bab. Man. 438. Hook. St. Fl. 490. H. & S. 101. Hist. Yarm.

*Top. Bot. Suff. E. and W. Galp. 120.

Herbaceous perennial; in meadows. June, July.

In all the districts.

Earliest record 1724. Willisell.

Festuca, Linn.

1. *F. uniglumis*, Soland. *One-glumed Fescue Grass.*

Bab. Man. 439. Hook. St. Fl. 498. H. & S. 101. Top. Bot.

*Suff. E.

Annual herb; on sandy commons near the sea. June.

5. Felixstowe||, *C.B. & Hb. Blk.* :—Landguard Fort, *Dr. Goodenough.*

Earliest record 1777. Dr. Goodenough.

2. *F. sciuroides*, Roth. *Squirrel-tail Fescue Grass.*

Bab. Man. 439.

Hook. St. Fl. 498.

H. & S. 101.

*Top. Bot. Suff. E. and W.

Annual herb ; on light soil.

June, July.

1. Ixworth Thorpe ; Fakenham :—Coney Weston, *E.F.L.* :—Woolpit Warren, *F.* :—Mildenhall, *Hbb. Blk. & Cas.* :—Bury, *Hb. Sk.* :—West Stow ; Cavenham and Tud-denham, *H. & S.*

2. Acton Sandpit, *C.B.* :—Cockfield, *W.J.*

3. Bungay ; Lake Lothing :—Fritton, *Sk. ms.* :—Lowestoft, *F.K.E. in Hb. Ly.*

4. Dunwich || :—Snape, *Crabbe* :—Gt. Glemham, *E.N.B.*

5. 'Near Landguard Fort, *Dr. Goodenough*,' *Dill. Ray in Hort. Ox.* :—Aldeburgh, *Crabbe* :—Offton, *H. & S.*

Earliest record 1773. Sir J. Cullum.

3. *F. ambigua*, *Le Gall.*

Doubtful Fescue Grass.

Bab. Man. 439. Hook. St. Fl. 498. J. of B. 1879. Bot. Rec. 1879.

Annual herb ; in sandy heaths and fields.

1. Brandon ; Thetford ; Fakenham || :—Mildenhall, June, 1846, *J. Townsend* :—Lakenheath Warren, 1878, and Thetford Heath, 1879, *A.B.* :—Icklingham, July, 1878, *W.J.* :—Wangford and Lakenheath, 1883, *G. C. Druce* :—between Thetford and Elveden, *E.F.L.*

Earliest record 1846. J. Townsend.

4. *F. Myurus*, *Linn.*

Rat's-tail Fescue Grass.

Bab. Man. 439. Hook. St. Fl. 498. H. & S. 101. Galp. 121.

Top. Bot. Suff. E.

Annual herb ; on walls and sandy fields. June, July.

1. Fakenham || ; Honington ; Ixworth Thorpe ; Ing-ham ; Bury ; Thetford :—Barton *Hb. Blk.* :—Stowlangtoft, *Hb. Rk.* :—Mildenhall, *Sir C.J.F.B.* :—Higham Embankment, *W.J.*, *Bot. Rec. 1879.*

3. Near Lake Lothing :—Gunton, *Hb. Geld.*

4. Westleton Heath || ; Wingfield Castle :—Snape and Sweffling, *E.N.B.* :—Mendham, *Galp.*

5. Claydon and Ipswich.

Earliest record 1860. Rev. E. N. Bloomfield.

5. *F. ovina*, *Linn.*

Sheep's Fescue Grass.

Bab. Man. 439,40. Hook. St. Fl. 497. H. & S. 101. Hist. Yarm.

Top. Bot. Suff. E. and W. Galp. 121.

Herbaceous perennial ; in dry pastures.

June.

Frequent in all the districts.

c. *F. duriuscula*, Linn.

F. fallax, Th.

Bab. Man. 439, 40. Hook. St. Fl. 497. Hist. Yarm.

1. Honington; Ixworth :—Barton, *Hb. Blk.* :—Pakenham, *Hb. Cas.* :—Stowlangtoft, *Hb. Rk.* :—Bury, *E. Sk.* :—Mildenhall, *Sir C.J.F.B.* :—Euston, *E.F.L.*

3. Oulton, *E. Sk.*

4. Gt. Glemham, very common, *E.N.B.* :—Mendham, *Galp.*

5. Felixstowe ||.

F. glauca, Sm. ?

1. Mildenhall, *Sir C.J.F.B.*

5. Catawade ||.

Earliest record 1773. Sir J. Cullum.

6. *F. rubra*, Linn.

Sand Sheep's Fescue Grass.

Bab. Man. 440. Hook. St. Fl. 497. H. & S. 101. Hist. Yarm. *Galp.* 121.

Herbaceous perennial; usually in sandy places. June.

1. Barnham ||; Honington; Bardwell.

3. Lowestoft, *Hb. Sk.* :—Benacre, *Sk. ms.* :—Flixton Park, *Galp.*

4. Dunwich || :—Sizewell, *E.N.B.*

5. Catawade :—Felixstowe, *Purchas.*

Earliest record 1834. Paget.

7. *F. oraria*, Dum.

F. arenaria, Osb.

Sea-shore Fescue Grass.

Bab. Man. 440. Hook. St. Fl. 497.

Herbaceous perennial; on sea-sands.

June.

3. Lowestoft and Covehithe :—Pakefield, *Hb. Geld.*

4. Dunwich ||.

5. Felixstowe.

Earliest notice 1879. Hind.

9. *F. gigantea*, Vill.

Bromus giganteus, Linn.

Giant Fescue Grass.

Bab. Man. 440, 1. Hook. St. Fl. 496. H. & S. 100. Hist. Yarm. *Top.* Bot. Suff. E. and W. *Galp.* 121.

Herbaceous perennial; in moist thickets.

July.

Frequent in all the districts.

b. *F. triflora*, Sm.

Bab. Man. 441. Hook. St. Fl. 496.

1. Stanton Grundle ||; Knettishall :—Hardwick, *Sk.*

ms.

2. Hitcham, *Hb. Hens.* :—Rede, *Hb. Turn.*
Earliest notice 1834. Paget.

10. *F. elatior*, *Linn.* *Tall Fescue Grass.*

Bab. Man. 441. Hook. St. Fl. 496. H. & S. 101. Galp. 121.

Top. Bot. Suff. E. and W.

Herbaceous perennial; in wet pastures and fens.

June, July.

1. Hopton Fen ||; Euston; Ixworth Thorpe ||; Bardwell :—Barton, *Hb. Blk.* :—Bury, *Hb. Sk.* :—Mildenhall, *Sir C.J.F.B.* :—Tuddenham, *E. Sk.*

2. Hitcham, *Herb. Hens.* :—Rede, *Hb. Turn.*

3. Oulton Dyke, *E. Sk.* :—Flixton Park, *Galp.*

5. Grundisburgh, *T.H.*

Earliest record 1856. Prof. Henslow.

11. *F. pratensis*, *Huds.* *Meadow Fescue Grass.*

Bab. Man. 441. Hook. St. Fl. 496. H. & S. 101. Hist. Yarm.

Top. Bot. Suff. E. and W. Galp. 121.

Herbaceous perennial; in meadows.

June, July.

In all the districts.

b. F. loliacea, *Huds.*

Bab. Man. 441.

Hook. St. Fl. 496.

H. & S. 101.

Top. Bot. Suff. E. and W.

1. Fakenham ||; Honington; Bury :—Barton, *Hb. Blk.*

2. Hitcham, *Hb. Hens.*

3. About Bungay, *Woodward* :—Flixton, *H.B.C.* :—

St. Margarets, *Galp.*

4. Yoxford, *Ms. Davy* :—Weybread, *Galp.*

Earliest record 1834. Paget.

Bromus, *Linn.*

1. *B. erectus*, *Huds.* *Upright Brome Grass.*

Bab. Man. 441.

Hook. St. Fl. 499,500.

H. & S. 100.

Galp. 129. Top. Bot. Suff. W.

Herbaceous perennial; on sandy or chalky soil.

June, July.

1. Mildenhall, *J. Townsend, Phyt. 1861* :—Barrow Bottom, on chalk-bank, *Sk. ms.* :—near Newmarket ||, *E. Sk.*

2. Rede, *Hb. Turn.*

3. Bungay, *Woodward.*

4. Dunwich, *T.W.G.* :—Framlingham, *F.K.E. in Hb. Ly.*

b. B. villosus, Bab.

Bab. Man. 441. Hook. St. Fl. 500.

4. Dunwich, *T.W.G.*

Earliest record 1841. J. Townsend.

2. *B. asper*, Murr. *B. serotinus*, Benck.
Hairy Brome Grass.

Bab. Man. 441.2. Hook. St. Fl. 499. H. & S. 100. Hist. Yarm.

Top. Bot. Suff. E. and W. Galp. 121.

Duration likely perennial; in woods and thickets.

Frequent in all the districts.

July.

Earliest record 1834. Paget.

3. *B. sterilis*, Linn. *Barren Brome Grass.*
Choke Grass.

Bab. Man. 442. Hook. St. Fl. 500. H. & S. 100. Hist. Yarm.

Top. Bot. Suff. E. and W. Galp. 121.

An annual weed; on waysides, and in light soil.

Frequent in all the districts.

June.

Earliest record 1773. Sir J. Cullum.

4. *B. madritensis*, Linn. *a. B. diandrus*, Curt.
Upright annual Brome Grass.

Bab. Man. 442. Hook. St. Fl. 500.

An annual herb; in sandy places.

June, July.

2. Rede, *Hb. Turn.*

4. Westleton Heath ||.

Earliest notice 1879. Hind.

[*B. tectorum*, Linn. *House Brome Grass.*

Bab. Man. 442. Hook. St. Fl. App. 535.

1. In sandy fields, Thetford, *E.F.L.* 1886.]

[*B. maximus*, Desf. *Great Brome Grass.*

Bab. Man. 442. Hook. St. Fl. 500.

Annual; a stray from the Channel Islands.

July.

1. In a cart track in a light pasture, in quantity,

Fakenham, 1883 ||.]

Serrafalcus, *Parlatore.*

*1. *S. secalinus*, Bab. *Bromus secalinus*, Linn.
Smooth Rye Brome Grass.

Bab. Man. 442.3. Hook. St. Fl. 501. H. & S. 100. Hist. Fram.

Galp. 121. Top. Bot. Suff. E. and W.

Annual herb ; on banks and in corn-fields. June, July.

1. Mildenhall :—Barton, *Sir C.J.F.B.* :—Newmarket, *W.J.* :—Bury, *Sk. ms.* :—Pakenham, *Cas. in Hb. Ly.*

2. Long Melford ; Wiston :—Hitcham, *Hb. Hens.*

3. Bungay || ; Dyke near Oulton Broad :—Lowestoft, *Hb. Sk.* :—Lake Lothing, *Sk. ms.*

4. Framlingham, *Crabbe.*

Earliest record 1798. Rev. G. Crabbe.

2. *S. racemosus*, *Parl.* *Bromus racemosus*, *Linn.*
Smooth Brome Grass.

Bab. Man. 443. Hook. St. Fl. 501. H. & S. 100. Hist. Yarm.

Top. Bot. Suff. E. and W. Galp. 121.

Biennial herb ; in meadows and waste places. June.

1. Ixworth Thorpe || ; Honington || ; Fakenham ; Bury.

2. Stoke :—Cockfield, *W.J.*

3. Bungay :—Corton, *Hb. Sk.* :—Lowestoft, *Sk. ms.* :—St. Margarets, *Galp.*

5. Catawade.

Earliest notice 1834. Paget.

3. *S. commutatus*, *Bab.* *Bromus commutatus*, *Schrad.*
Tumid Field Brome Grass.

Bab. Man. 443. Hook. St. Fl. 501. Galp. 122.

Biennial herb ; in meadows. June, July.

1. Honington ; Ixworth Thorpe || ; Bardwell ; Fakenham :—Bury, *Hb. Sk.*

2. Nayland || :—Rede, *Hb. Turn.*

3. St. Margarets, *Galp.* :—Lowestoft, *H.D.G. in Hb. Geld.*

4. Dunwich :—Mendham, *H.B.C.*

Earliest notice 1862. E. Skepper.

4. *S. mollis*, *Parl.* *Bromus mollis*, *Linn.*
Soft Brome Grass. *Sop Grass.*

Bab. Man. 443. Hook. St. Fl. 501. H. & S. 100. Hist. Yarm.

Top. Bot. Suff. E. and W. Galp. 122.

Annual ? herb ; in meadows and pastures. May, June.

Common in all the districts.

b. *S. glabrescens*, *Coss.*

S. ovalis, *Bab.*

S. racemosus, *Parn.*

1. Mildenhall, *Hb. Blk.*
3. Kirkley, *H.D.G. in Hb. Geld.*

d. *S. hordeaceus*, Fries.

Hook. St. Fl. 501.

1. Brandon, on sandy soil ||.
3. Lowestoft, *F.K.E. in Hb. Ly.*
5. Felixstowe ||.

Earliest record 1773. Sir J. Cullum.

- *5. *S. arvensis*, Godr. *Bromus arvensis*, Linn.
Taper Field Brome Grass.

Bab. Man. 443, 4. Hook. St. Fl. 502. H. & S. 100. Galp. 122.
 Annual herb ; in fields ; naturalized. July, Aug.

1. Ixworth Thorpe || ; Fakenham ; Hopton :—Bury,

Hb. Sk.

2. Hitcham and Cockfield, *Sk. ms.*
3. Lowestoft, *Sk. ms.* :—Flixton, *Galp.*

Earliest notice 1862. E. Skepper.

- [*S. patulus*, Parl. *Bromus patulus*, Reich.
Spreading Field Brome Grass.

Bab. Man. 444. Hook. St. Fl. App. 535.

Annual herb ; cultivated ; or an occasional stray. June.

1. Market Weston || ; Fakenham. Hind.]

Brachypodium, *Pal. de Beauv.*

1. *B. silvaticum*, R. & S. *Slender False Brome Grass.*

Bab. Man. 444. Hook. St. Fl. 502. H. & S. 100. Hist. Yarm.

Top. Bot. Suff. E. and W. Galp. 122.

Herbaceous perennial ; in woods and hedges. July.

Frequent in all the districts.

Earliest record 1834. Paget.

2. *B. pinnatum*, Beauv. *Heath False Brome Grass.*

Bab. Man. 444. Hook. St. Fl. 502. H. & S. 100.

Herbaceous perennial ; on calcareous soil. July.

3. Bungay, Woodward, 1805.

Triticum, Linn.

1. *T. caninum*, Huds. *Agropyron caninum*, Beauv.
Fibrous-rooted Wheat Grass.

Bab. Man. 444. Hook. St. Fl. 503. H. & S. 99. Top. Bot. Suff. E. and W. Galp. 129.

Herbaceous perennial; on banks and in thickets; rare. July.

1. Hardwick, *Hb. Sk.*:—Hawstead, *H. & S.*

2. Hitcham, *Hb. Hens.*:—ThurLOW, *Hb. F.*:—Rede,

Hb. Turn.

3. Bungay, *Sk. ms.*

4. Sibton || :—Dunwich, *T.W.G.* 5. Offton, *H. & S.*

Earliest record 1853. Prof. Henslow.

2. *T. repens*, Linn. *Agropyron repens*, Beauv.
Couch Grass.

Bab. Man. 445. Hook. St. Fl. 504. H. & S. 99. Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 122.

Herbaceous perennial; in hedges and fields. June.

Frequent in all the districts.

T. barbatum.

1. Honington.

2. Wickhambrook.

Earliest record 1834. Paget.

3. *T. pungens*, Pers. **Agropyron pungens*, Roem.
and Schult. *Pungent Wheat Grass.*

Bab. Man. 445. Hook. St. Fl. 504.

Herbaceous perennial; on the sea-coast. July.

3. Lowestoft; Breydon Water ||; Kessingland:—

Lake Lothing, *Hb. Sk.*

5. Stutton; Catawade and Ipswich:—Erwarton, *Hb.*

Rk.

T. littorale. *Agropyron littorale*, Reichb.

Hook. St. Fl. 504.

3. Lowestoft, *E. Sk.*

4. Dunwich, *T.W.G.*

5. Stutton:—Aldeburgh, *Hb. F.*

A proliferous monstrosity of this species was gathered at Kessingland || Sep. 15th, 1886.

Earliest notice 1850. Rev. S. Rickards.

4. *T. acutum*, DC. *Agropyron acutum*, non R. & S.
Acute Wheat Grass.

Bab. Man. 445. Hook. St. Fl. 504. Top. Bot. Suff. E.

Herbaceous perennial; on sandy sea-shore. July, Aug.

3. Kessingland:—Breydon, *G. C. Druce.*

4. Dunwich ||.
5. Ipswich ? :—Felixstowe, *Purchas*.
Earliest notice 1861. Rev. W. H. Purchas.
5. *T. junceum*, *Linn.* *Agropyron junceum*, *Beauv.*
Rushy Sea Wheat Grass.
Bab. Man. 445. Hook. St. Fl. 504. H. & S. 99. Hist. Yarm.
Herbaceous perennial ; on sandy sea-shores.
July, August.
3. Gorleston and Kessingland :—Lowestoft ||, *Hbb.*
Cas., *Sk.*, & *Ly*.
4. Dunwich || :—Sizewell, *E.N.B.*
5. Aldeburgh, *Hb. Cas.* :—Felixstowe, *Purchas*.
Earliest record 1724. Buddle.

Elymus, *Linn.*

1. *E. arenarius*, *Linn.* *Lyme Grass*.
Bab. Man. 446. Hook. St. Fl. 507. H. & S. 99. Hist. Yarm. ?
Top. Bot. Suff. E.
Herbaceous perennial ; on sandy sea-shores. July.
3. Lowestoft, *Hb. Cas.* :—Pakefield, *Hb. Cas.* :—
Southwold, *Holmes* :—Easton Bavents, *E.N.B.* :—Corton,
Phyt. 1862 :—Kessingland.
4. Dunwich || :—Thorpe, *E.N.B.*
Earliest notice 1597. Gerarde.

Hordeum, *Linn.*

2. *H. pratense*, *Huds.* *Meadow Barley*.
Bab. Man. 446. Hook. St. Fl. 506. H. & S. 99. Hist. Yarm.
Top. Bot. Suff. E. and W.
Herbaceous perennial ; in moist meadows. July.
1. Honington ; Sapiston ; Ixworth Thorpe || :—Paken-
ham, *Hb. Cas.* :—Barton, *Sir C.J.F.B.* :—Fornham and
Hardwick, *H. & S.* :—Ickworth Park and Dalham, *Sk. ms.*
2. Wickhambrook :—Hitcham, *Hb. Hens.* :—Nayland,
Gray :—Kersey, *E.F.L.* :—Cockfield, *W.J.* :—Rede, *Hb.*
Turn.
3. Pastures near Breydon Water and Southwold ;
Belton :—Somerleyton, *Hb. Sk.* :—Bungay, *Stock*.
4. Dunwich :—Gt. Glemham, *E.N.B.*
5. Aldeburgh ; Orford ; Felixstowe ; Catawade :—

Grundisburgh, *T.H.*

Earliest record 1834. Paget.

3. *H. murinum*, *Linn.**Wall Barley.*

Bab. Man. 446. Hook. St. Fl. 506. H. & S. 99. Hist. Yarm.

Top. Bot. Suff. E. and W. Galp. 122.

Biennial herb; under walls and in waste places.

June, July.

1. Honington ||; Hopton; Market Weston; Brandon:
—Barton, *Hb. Blk.*:—Bury, *Hb. Sk.*:—Mildenhall, *Sir C.J.F.B.*

2. Melford; Bures to Stoke:—Hitcham, *Hb. Hens.*:—
Kersey, *E.F.L.*:—Cockfield, *W.J.*

3. Bungay; Southtown; Gorleston and Kessingland.

4. Dunwich; Redgrave; Botesdale:—Gt. Glemham,
E.N.B.

5. Needham Market; Shrubland; Claydon; Felix-
stowe; Stutton; Catawade:—Grundisburgh, *T.H.*

H. arenarium, Bab.

5. Walton ||.

Earliest record 1833. Mrs. Casborne.

4. *H. maritimum*, *With.**Sea-side Barley.*

Bab. Man. 446. Hook. St. Fl. 506, 7. H. & S. 99. Hist. Yarm.

Top. Bot. Suff. E.

Annual herb; on the sea-coast.

June.

3. Lowestoft and Lake Lothing:—Southwold, *Hb.*
Blk.:—Breydon Water ||, *Wigg*:—near Burgh Castle, *J. T.*
Syme in Hb. Geld.

4. Dunwich ||; Walberswick:—Snape, *E.N.B.*

5. Felixstowe:—Orford and Slaughden, *Crabbe*:—
Aldeburgh, *Sir C.J.F.B.*:—Landguard Fort, *Hb. Sk.*:—
Catawade Bridge, *H. & S.*

Earliest record 1805. Rev. G. Crabbe.

Lepturus, *R. Brown.*1. *L. filiformis*, *Trin.**Sea Hard Grass.*

Bab. Man. 446, 7. Hook. St. Fl. 504, 5. H. & S. 99. Hist. Yarm.

Top. Bot. Suff. E.

Annual herb; in gravelly and waste places by the sea.

July.

3. Lowestoft, *Hb. Sk.* :—near Burgh Castle, *Phyt.* 1862 :—Breydon Water, *C.B.* :—‘At the head of Lowestoft Broad,’ (Lake Lothing), *Woodward* :—Breydon Bank, *Paget.* (*L. incurvatus*,) the name given by some of these authorities evidently refers to our plant, which is so named in all the Floras of the first four decades of this century.

4. Sizewell and Snape, *E.N.B.* :—Dunwich, *Holmes in Hb. Ly.*

5. Felixstowe || *Hb. F. & C.B.*

Earliest record 1812. Woodward.

[*L. incurvatus*, Trin. Specimen from Dunwich, *Holmes in Hb. Ly.*]

Lolium, Linn.

1. *L. perenne*, Linn. *Common Rye Grass*

Bab. Man. 447. Hook. St. Fl. 503. H. & S. 100. Hist. Yarm.

Top. Bot. Suff. E. and W. Galp. 122.

Herbaceous perennial; in meadows and pastures.

Common in all the districts.

June.

Paniced and crested forms are tolerably frequent. *e.g.*

Hitcham, *Hb. Hens.*

c. L. tenue, Linn.

Bab. Man. 447.

1. Near Barningham Park, Bardwell ||.

Earliest record 1775. Sir J. Cullum.

[*L. italicum*, A. Braun.

Italian Rye Grass.

Bab. Man. 447. Hook. St. Fl. 503. H. & S. 100. Top. Bot.

Suff. E. and W.

Herbaceous perennial; in meadows; usually sown.

June.

1. Bury, *Hb. Sk.* :—Honington; Sapiston ||; Brandon and Lakenheath :—Barnham, *Gray.*

2. Rede, *Hb. Turn.* :—Cockfield, *W.J.*

3. Benacre.

4. Eye ||.

5. Stutton.

Earliest notice 1860. Henslow & Skepper.]

2. *L. temulentum*, Linn.

Darnel.

Bab. Man. 447. Hook. St. Fl. 503. H. & S. 100. Hist. Yarm. ?

Galp. 122.

Annual weed; in cultivated fields.

June to Aug.

1. Bury, *Hb. Sk.* :—Pakenham, *Hb. Cas.*

2. Hitcham, *Prof. Hens.* :—Haverhill ||, *Herb. F.*
3. Bungay, *Stock* :—St. Margarets (E.A.H.), *Galp.*
4. Gt. Glemham, *E.N.B.* :—Dunwich, *Dr. Woodward*
in *Hb. Geld.*

b. *L. arvense*. With.

Bab. Man. 447. Hook. St. Fl. 503. H. & S. 100.

1. Barton, *Hb. Blk.* :—Bury, *Hb. Sk.*
2. Nayland || :—Hitcham, *Hb. Hens.*
3. Bungay, *Woodward.* 5. Ipswich, *H. & S.*
Earliest record 1798. Rev. G. Crabbe.

CRYPTOGAMEÆ.

EQUISETACEÆ.

Equisetum, *Linn.*

1. *E. arvense*, *Linn.* *Corn Horsetail.*

Bab. Man. 448. Hook. St. Fl. 521. H. & S. 104. Hist. Yarm.
Top. Bot. Suff. E. and W. Galp. 125.

Herbaceous perennial; in moist meadows. April.
Frequent in all the districts.

Earliest record 1773. Sir J. Cullum.

3. *E. maximum*, *Lam.* *Great Horsetail.*

Bab. Man. 449. Hook. St. Fl. 522. H. & S. 104. Hist. Yarm.
Top. Bot. Suff. E. and W. Galp. 129.

Herbaceous perennial; in wet places. April.

2. Wiston :—Lit. Thurlow, *Hb. F.* :—Brent Eleigh,
C.B.

3. Cold Springs at Barnby, and between Bungay and
Halesworth, *Woodward* :—Bungay and Lowestoft, *H. & S.* :
—Beccles.

5. Bentley ||; Sutton; Woolverstone; Melton :—
Ipswich and Ramsholt, *H. & S.*

Earliest record 1805. Woodward.

4. *E. silvaticum*, *Linn.* *Branched Wood Horsetail.*

Bab. Man. 449. Hook. St. Fl. 522. H. & S. 104.

Herbaceous perennial; moist banks and woods.

June, July.

Mentioned without locality in 1775, *Sir J. Cullum.*:—
Suffolk, *Moore, H. & S.*

5. *E. limosum*, *Linn.* *Smooth Naked Horsetail.*

Bab. Man. 449, 50. Hook. St. Fl. 522, 3. H. & S. 104. Hist.
Yarm. Top. Bot. Suff. E. and W. Galp. 125.
Herbaceous perennial; in water. June, July.
Frequent in all the districts.

b. E. fluviatile, *Linn.*

Bab. Man. 450. Hook. St. Fl. 523.

1. Fakenham ||; Barnham. 2. Hitcham, *Hb. Hens.*
3. Beccles:—between Halesworth and Bungay, *Ms.*

Davy.

Earliest record 1834. *Paget.*

6. *E. palustre*, *Linn.* *Marsh Horsetail.*

Bab. Man. 450. Hook. St. Fl. 522. H. & S. 104. Hist. Yarm.
Top. Bot. Suff. E. and W. Galp. 125.
Herbaceous perennial; in bogs and fens. June, July.
Frequent in all the districts.

b. E. polystachyum, *Auct.*

Bab. Man. 450. Hook. St. Fl. 522. H. & S. 104.

1. Tuddenham, *Hb. Sk.*:—Mildenhall, *Sir C.J.F.B.*:
—Stowlangtoft, *Hb. Rk.*:—Wangford.
2. Long Melford. 4. Redgrave Fen.

c. E. nudum, *DC.* *E. subnudum.*

Bab. Man. 450. Hook. St. Fl. 522.

1. Hopton ||:—Mildenhall, *Miss Pertz.*

Earliest record 1834. *Paget.*

7. *E. hiemale*, *Linn.* *Rough Horsetail.*

Bab. Man. 450. Hook. St. Fl. 523. H. & S. 104. Top. Bot.
Suff. W.

Herbaceous perennial; on moist banks and in woods.

July, August.

1. The Bradfields, *C.B.*:—Hawstead, *Hb. Sk.*:—
Drinkstone and Woolpit Heath, *Hb. F.*:—Hardwick, *H. & S.*:
—‘Banks of a pond in Horsecroft Wood, three miles West
of Bury, *Sir J. Cullum,*’ *Dill. Ray in Hort. Ox.*

- 2.—Hitcham, *Prof. Hens.*

Earliest notice 1775. *Sir J. Cullum.*

FILICES.

Polypodium, *Linn.*

1. *P. vulgare*, *Linn.* *Common Polypody.*
 Bab. Man. 454. Hook. St. Fl. 518. H. & S. 105. Hist. Yarm.
 Top. Bot. Suff. E. and W. Galp. 124.
 Herbaceous perennial; on banks and trees.
 Frequent in all the districts. August to October.
P. serratum, Willd.
 Lond. Cat. 1801.b.
2. Hitcham, *Hb. Hens.* :—Lavenham, *Hb. Sk.*
 Earliest record 1834. Paget.

Lastrea, *Presl.*

1. *L. Thelypteris*, *Presl.* *Nephrodium Thelypteris*, Desv.
Marsh Fern.
 Bab. Man. 456. Hook. St. Fl. 518. H. & S. 105. Hist. Yarm.
 Top. Bot. Suff. E. and W. Galp. 129.
 Herbaceous perennial; in marshy woods. July, Aug.
 1. Ixworth Thorpe Carr :—Cavenham Severals, *Hb.*
Sk. :—Mildenhall, *Hb. Blk.* :—Felsham Wood, *C.B.*
 3. Lound || :—Worlingham and Barnby :—Fritton,
Hb. Sk. :—Hopton and Bradwell Commons, *Wigg* :—Wang-
 ford; Blundeston and Belton, *H. & S.* :—Bungay, *Woodward* :
 —Benacre, *F. Spalding*.
 5. Bramford, rare, *Miller*.
 Earliest record 1775. Sir J. Cullum.
2. *L. Oreopteris*, *Presl.* *Nephrodium Oreopteris*, Desv.
Sweet Mountain Fern.
 Bab. Man. 456. Hook. St. Fl. 518. H. & S. 105. Hist. Yarm.
 Top. Bot. Suff. E.
 Herbaceous perennial; in moist heaths and woods.
July.
 1. Felsham ||, *C.B.*
 3. Bradwell, *D. Turner* :—Herringfleet, *E.N.B.*
 Earliest record 1834. Paget.
3. *L. Filix-mas*, *Presl.* *Nephrodium Felix-mas*, Rich.
Male Fern.

- Bab. Man. 456. Hook. St. Fl. 516. H. & S. 105. Hist. Yarm.
 Top. Bot. Suff. E. and W. Galp. 124.
 Herbaceous perennial; in woods and hedges.
 Frequent in all the districts. June, July.
 Earliest record 1772. Sir J. Cullum.

6. *L. cristata*, Presl. *Nephrodium cristatum*, Rich.
 Crested Fern.

- Bab. Man. 457. Hook. St. Fl. 516, 17. H. & S. 105.
 Top. Bot. Suff. E.
 Herbaceous perennial; on boggy heaths; rare. Aug.
 3. Fritton Decoy, *Hb. Sk. & Ms. Davy*.
 4. Westleton Decoy, *Ms. Davy*:—Edge of Westleton Moor, *F. Spalding*.
 5. Bexley Decoy, near Ipswich ||, *Phyt. O.S., H. Bidwell & Haward*.
 Earliest record about 1815. Davy.

6b. *L. uliginosa*, Newm. *Lloyd's Fern*.

- Bab. Man. 457. Hook. St. Fl. 517. Newm. Br. Ferns. 163-8.
 Herbaceous perennial; in boggy woods and heaths.
 August.
 3. Boggy wood at Barnby. 5. Near Ipswich, *Miller*.
 First notice August 25th, 1887. Hind.

7. *L. spinulosa*, Presl. *Nephrodium spinulosum*, Desv.
 Withering's Fern.

- Bab. Man. 457. Hook. St. Fl. 517. H. & S. 105.
 Top. Bot. Suff. E. and W.
 Herbaceous perennial; in wet heaths and woods.
 August, September.
 1. Ixworth Thorpe; Livermere; Cavenham ||:—Felsham Wood, *C.B.*:—Santon Downham; Wangford; Cavenham Severals, *Sk. ms.*
 2. Wiston:—Whepstead, *Sk. ms.*
 3. Lound ||; Belton; Mettingham; Covehithe; Barnby:—Fritton Decoy, *Hb. Sk.*:—Benacre, *F. Spalding*:—Worlingham, *R. E. Leach*:—Herringfleet, *J. W. Ewing in Hb. Geld*.
 4. Gt. Glemham; Benhall, *E.N.B.*:—Edge of Westleton Moor, *F. Spalding*:—Heveningham, *T.W.G.*
 5. Nacton, *Miller*.
 Earliest record 1855. T. W. Gissing.

8. *L. dilatata*, Presl. *Nephrodium dilatatum*, Desv.
Roth's Fern.

Bab. Man. 458.

Hook. St. Fl. 517.

H. & S. 105.

Top. Bot. Suff. E. and W.

Herbaceous perennial; in woods. August, September.

1. Ixworth Thorpe; Livermere; Thelnetham; Cavenham || :—Wangford, *H. & S.*:—Icklingham, *Sk. ms.*

2. Wiston and Polstead :—Hadleigh, *F. Spalding.*

3. Lound ||; Hopton; Belton :—Fritton, *H. & S.*:—Herringfleet; Covehithe, *Sk. ms.*

4. Near Redgrave Fen :—Benhall, *H. & S.*:—Peasenhall, *T.W.G.*:—Westleton, *R. E. Leach.*

5. Loudham Hall; Wickham Market and Sutton Haugh, *F. Spalding*:—Iken, *F.N.B.*:—Nacton and Bentley, *Miller*:—Woodbridge, *Hb. Ly.*

L. glandulosa, Newm. *Neprodium glandulosum*, Newm.

Bab. Man. 458. Hook. St. Fl. 517.

4. Redgrave Fen :—near Dunwich.

Earliest record 1860. Henslow and Skepper.

9. *L. æmula*, Brack. *Nephrodium æmulum*, Baker.
Hay-scented Fern.

Bab. Man. 458.

Hook. St. Fl. 517, 18.

Sweet-scented herbaceous perennial; banks and woods.
August, September.

3. In a copse at Lound ||. 1883. Hind.

Polystichum, Roth.

2. *P. aculeatum*, Roth. *Aspidium aculeatum*, Sw.
Prickly Fern.

Bab. Man. 458, 9. Hook. St. Fl. 516. H. & S. 105. Top. Bot. Suff. E. and W.

Evergreen perennial; in hedge-banks and copses.

Frequent in all the districts. July, August.

P. lobatum, Presl. *Aspidium lobatum*, Sw.

Bab. Man. 459. Hook. St. Fl. 516. H. & S. 105. Hist. Yarm.

1. Bradfield; Bury; Rushbrooke, *H. & S.*:—Hardwick, *Hb. Ly.*

2. Groton, *H. & S.*

3. Mettingham :—Belton; Sotterley, *H. & S.*

4. Gt. Glemham, *E.N.B.*

5. Around Ipswich, now scarce, *Miller*:—Bentley,
I.S. Soc.

Earliest record 1776. Sir J. Cullum.

3. *P. angulare*, *Newm.* *Aspidium angulare*, Willd.
Willdenow's Fern.

Bab. Man. 459. Hook. St. Fl. 516. H. & S. 105. Top. Bot.
Suff. E. and W.

Herbaceous perennial; in woods and hedge-banks.

July, August.

1. Bardwell || :—Bradfield St. George, *C.B.*

2. Hitcham, *Prof. Hens.*:—Hadleigh, *F. Spalding.*

3. Gorleston, *Phyt.* 1863.

4. Westleton, *F. Spalding*:—Benhall, *E.N.B.*

5. Holbrooke, *Hb. F.*:—Felixstowe, *Purchas*:—around
Ipswich, *Miller.*

Earliest notice 1860. Prof. Henslow.

Cystopteris, *Bernh.*

1. *C. fragilis*, *Bernh.* *Brittle Bladder Fern.*

Bab. Man. 459. Hook. St. Fl. 515. H. & S. 105.

Small herbaceous perennial; on limestone or walls.

July, August.

Newman records it for Suffolk, but without locality.

3. Bungay, *Moore*, 1859?

4. Yoxford, *Moore*?

Athyrium, *Roth.*

1. *A. Filix-fœmina*, *Bernh.* *Asplenium Filix-fœmina*,
Bernh. *Lady Fern.*

Bab. Man. 460 Hook. St. Fl. 513, 4. H. & S. 105. Hist. Yarm.
Top. Bot. Suff. E. and W. Galp. 123.

Herbaceous perennial; in damp shady places.

June, July.

a. *A. rheticum*, Roth. *Asplenium rheticum*, Roth.

Bab. Man. 460. Hook. St. Fl. 513.

1. Ixworth Thorpe ||.

2. Wiston.

5. Woolverstone.

b. *A. Filix-fœmina*, Roth.

Bab. Man. 460.

1. Ixworth Thorpe ||. 2. Polstead Marsh.
3. Lound and Belton :—Fritton Decoy, *Hb. Sk.* :—
Worlingham, *R. E. Leach*.

4. Westleton :—Palgrave, *Collins*.

The forms have not been distinguished in the following localities :

1. Icklingham and Cavenham Severals, *Sk. ms.* :—
Hawstead, *Sir J. Cullum*.

2. Hitcham Wood, *H. & S.* :—Sudbury, *W. D. King*,
Phyt. O.S.

3. Bungay, *H. & S.* :—Covehithe Rectory and Herring-
fleet, *Sk. ms.* :—Benacre, 1867 :—Flixton, *Galp.*

A form named *A. robustum* by Mr. Wollaston, *T. M. Spalding*. This form is not given by Newman, nor in any Flora to which we have access.

4. East Bridge, Theberton. *T.W.G.*

5. In a moist wood at Sutton Haugh, *F. Spalding* :—
Bentley and Nacton, *Miller* :—Bromeswell, *Crabbe in Ms. Davy*.

Earliest record 1773. Sir J. Cullum.

Asplenium, *Linn.*

3. *A. Adiantum-nigrum*, *Linn.* *Black Spleenwort.*

Bab. Man. 461. Hook. St. Fl. 513. H. & S. 105. Hist. Yarm.
Top. Bot. Suff. E. and W.

Small herbaceous perennial ; on old walls. June to Sep.

1. Livermere ; Ingham ; West Stow :—Woolpit, *Hb. F.* :—Saxham and Rougham, *H. & S.* :—Felsham Church ||,
W.J.

2. Nayland :—Lavenham, *Hb. Sk.* :—Polstead, *Hb. Cas.* :—
Hitcham, *Prof. Hens.*

3. Bungay, *Sir J. Cullum* :—Lound, *Paget* :—Covehithe,
Sk. ms.

4. Cotton and Braiseworth, *C.B.* :—edge of Westleton
Moor, *F. Spalding*, :—Parham, *H. & S.* :—Lit. Glemham
and Benhall, *E.N.B.*

5. Ipswich and Bentley, *Miller*.

Earliest record 1773. Sir J. Cullum.

4. *A. Trichomanes*, *Linn.* *Common Spleenwort.*

Bab. Man. 461. Hook. St. Fl. 512. H. & S. 105. Hist. Fram.
Hist. Yarm. ? Top. Bot. Suff. E. and W.

Small herbaceous perennial ; on old walls. May to Sep.

1. West Stow || ; Ingham ; Fornham ; Livermere :—All Saints' Church, Stanton, *Sk. ms.* :—Wetherden Church, *F.* :—Haughley, *T.B.* :—Rushbrooke Hall, *Mrs. Carss* :—Santon Downham, *Norgate*.

2. Brockley Church, *Sk. ms.*

4. Braiseworth, *C.B.* :—Framlingham, *Crabbe* :—Benhall Church, *E.N.B.*

5. Bentley Priory, *C.B.* :—Orford, *F. Spalding* :—Aldeburgh, *E.N.B.*

Earliest record 1798. Rev. G. Crabbe.

7. *A. Ruta-muraria*, Linn. *Wall Rue Fern.*

Bab. Man. 462. Hook. St. Fl. 511. H. & S. 105. Hist. Fram.
Hist. Bury. Top. Bot. Suff. E. and W. Galp. 123.

Small herbaceous perennial ; on old walls. May to Sep.

1. Wattisfield and Woolpit Churchyards ; Fornham St. Martin ; Thetford :—All Saints' Church, Stanton, *Hb. Sk.* :—on Church and walls, Hawstead, *Sir J. Cullum* :—Culford, *Gray* :—Elmswell and Rushbrooke Hall Moat, *Mrs. Carss*.

2. Bildeston Churchyard :—Long Melford Church, *Hb. F.*

3. Gorleston :—Bungay, *Sir J. Cullum* :—Lowestoft Church, *Hb. Sk.* :—Southwold Church, *Stone*.

4. Walberswick and Wingfield Churches :—Framlingham Church, *Parkinson, Crabbe, & E.N.B.* :—Eye Church, *T.W.G.* :—Saxmundham Church, *H. & S.* :—Syleham ; Freshingfield Church Wall, *Galp*.

5. Aldeburgh Church, *T.B.* :—Orford and Bramford, *Miller*.

Earliest record 1640. Parkinson.

Scolopendrium, Sm.

1. *S. vulgare*, Sym. *Hart's-tongue.*

Bab. Man. 462. Hook. St. Fl. 514. H. & S. 105. Hist. Fram.
Hist. Yarm. Top. Bot. Suff. E. and W. Galp. 124.

Evergreen perennial ; in shady places. July, August.

1. Sapiston ; Bardwell ; Honington ; Fakenham ; Market Weston ; Ingham ; West Stow :—Walsham, *Hb. Dun.* :—Woolpit, *F.* :—Fornham ; Hawstead ; Rushbrooke ; Thurston ; Lit. Welnetham, *Mrs. Carss*.

2. Wiston :—Hitcham, *Prof. Hens.* :—Sudbury, *W. D. King, Phyt. O.S.* :—Hadleigh and Kersey, *F. Spalding.*

3. Mettingham and Worlingham :—Gorleston, *Phyt. 1863.*

4. Framlingham, *Crabbe* :—Gt. Glemham, *E.N.B.* :—Westleton, *F. Spalding.*

5. Bentley and Woolverstone :—Woodbridge, *Hb. Ly.*
Earliest record 1798. Rev. G. Crabbe.

Ceterach, Willd.

1. *C. officinarum*, Willd. *Asplenium Ceterach*, Linn.
Rustyback.

Bab. Man. 462.

Hook. St. Fl. 514.

Galp. 123.

Top. Bot. Suff. W.

Small evergreen perennial ; on old walls. April to Sep.

1. At Bury, *Woodward in With.*, now lost.

2. Lavenham ||, *C.B. & Dr. White.*

4. Church Wall, Mendham, *Galp.* :—Framlingham,
Parkinson.

Earliest record 1640. Parkinson.

Blechnum, Linn.

1. *B. boreale*, Sw. *Lomaria Spicant*, Desv.
Northern Hard Fern.

Bab. Man. 463.

Hook. St. Fl. 511.

H. & S. 105.

Top. Bot. Suff. E. and W.

Evergreen perennial ; in moist places and heaths.

July.

1. Bradfield Combust, *Mrs. Terry* :—Ampton Holmes
and Cavenham Severals, *Sk. ms.*

2. Cornard and Assington Woods, *W. D. King, Phyt. O.S.* :—Polstead, *F. Spalding.*

3. Lound || :—Fritton Decoy, *H. & S.* :—Gunton :—
W. of Benacre Broad ; between Covehithe and So. Cove
Church, *Sk. ms.*

4. Walberswick :—Snape Bog, *H. & S.* :—Blythburgh
Fen and Westleton Moor, *F. Spalding.*

5. Blackheath, Aldeburgh, *Rev. J. Longe, fide E.N.B.* :—
Bentley, *Miller.*

Earliest record 1773. Sir J. Cullum.

Pteris, *Linn.*

1. *P. aquilina*, *Linn.* *Common Brake.*
 Bab. Man. 463. Hook. St. Fl. 510. H. & S. 105. Hist. Yarm.
 Top. Bot. Suff. E. and W. Galp. 123.
 Deciduous perennial; in heaths and woods. July.
 Common in all the districts.
 Earliest record 1773. Sir J. Cullum.

Osmunda, *Linn.*

1. *O. regalis*, *Linn.* *Flowering Fern.*
 Bab. Man. 464. Hook. St. Fl. 520. H. & S. 105. Hist. Yarm.
 Top. Bot. Suff. E. and W.
 Tall handsome fern, formerly tolerably frequent in
 Suffolk, now nearly everywhere extirpated; in bogs.
July to September.
 1. West Suffolk, without locality, *Varenne in Top. Bot.*
Suff.:—Ampton, possibly introduced.
 2. Wiston, evidently introduced.
 3. Lound, *D. Turner*:—Fens at Hopton and near
 Browston Hall, *Wigg*:—Fritton and Belton, *Paget*:—Fritton
 Decoy, *Hb. Sk.*:—Herringfleet, *E.N.B.* 1862. 'All seemed
 dead at second visit ten years afterward.' Benacre Broad
 and Flixton, *Sk. ms.*
 4. Leiston Decoy, *Ms. Davy.*
 5. Woolverstone, probably introduced:—Blackheath;
 near Aldeburgh, *Rev. J. Longe, fide E.N.B.*:—Iken Decoy,
F. Spalding.
 Earliest record 1776. Sir J. Cullum.

Botrychium, *Sw.*

1. *B. Lunaria*, *Sw.* *Moonwort.*
 Bab. Man. 464. Hook. St. Fl. 520, 1. H. & S. 105.
 Hist. Bury. Top. Bot. Suff. E. and W.
 Herbaceous perennial; in pastures and bogs.
May to July.
 1. Bury, *Sir T. G. Cullum*:—Thetford, *Hb. Blk.*:—
 Warren hill, near Mildenhall, *Sir C.J.F.B.*:—Lakenheath;
 Kennett; Rougham, *H. & S.*:—Ampton Holmes, *Sk. ms.*:—
 Santon Downham, *Norgate.*
 3. Blundeston; Fritton; Hopton; Browston:—
 Lowestoft, *Hb. Geld.*

4. Leiston, *H. & S.* :—in an old pasture, Laxfield, *F. Spalding* :—Theberton, *Ms. Davy*.

5. Melton, *H. & S.*

Earliest record 1773. Sir J. Cullum.

Ophioglossum, *Linn.*

1. *O. vulgatum*, *Linn.*

Adder's-tongue.

Bab. Man. 465. Hook. St. Fl. 520. *H. & S.* 104. Hist. Fram.
Hist. Bury. Top. Bot. Suff. E. and W. Galp. 124.

Herbaceous perennial ; in pastures.

May, June.

1. Knettishall || ; Ixworth Thorpe ; Wangford ; Coney Weston ; Barton Mills :—Mildenhall Fen, *Hb. Blk.* :—Rushbrooke, *Hb. Sk.* :—Walsham, *Hb. Dun.* :—Woolpit, *Hb. F.* :—Clopton Grove, *Mrs. Parker* :—Barningham, *E.F.L.* :—Lit. Welnetham ; Bardwell ; Ickworth and Saxham, *H. & S.* :—Rougham, *Hb. Rk.* :—‘Near the Moor on Hardwick Heath,’ *Sir J. Cullum* :—Mermaid’s Pits, Bury, *Hb. Ly.* :—Santon Downham, *Norgate*.

2. Hitcham, *Hb. Hens.* :—Clare, *J.F.W.*

3. Mettingham Castle, *Woodward* :—St. Cross, *H.B.C.* :—Bungay, *F. Spalding* :—Belton.

4. Framlingham, *Crabbe* :—Gt. Glemham, *E.N.B.* :—Fressingfield, *Galp.*

5. Baylham, *F.* :—Hemingstone, *T.B.* :—Sproughton and Whitton, *Miller*.

Earliest record 1773. Sir J. Cullum.

MARSILEACEÆ.

Pilularia, *Linn.*

1. *P. globulifera*, *Linn.*

Pillwort.

Bab. Man. 465. Hook. St. Fl. 527. *H. & S.* 104. Hist. Yarm.
Top. Bot. Suff. E.

Perennial aquatic plant ; in margins of ponds.

June, July.

3. Hopton Common, *Hb. Sk. & Stone* :—Bungay, *H. & S.*

Earliest record 1805. Stone.

LYCOPODIACEÆ.

Lycopodium, *Linn.*

1. *L. clavatum*, Linn. *Common Club-moss.*
 Bab. Man. 467. Hook. St. Fl. 524. H. & S. 104.
 Top. Bot. Suff. E. (a mistake for W.)
 A prostrate perennial; on heaths; rare in Suffolk.
 July, August.
 1. Tuddenham Heath, *Hb. Sk.* One patch growing on
 the Heath, *E.N.B.*
 Earliest record 1773. Sir J. Cullum.
4. *L. inundatum*, Linn. *Marsh Club-moss.*
 Bab. Man. 467. Hook. St. Fl. 524, 5. H. & S. 104. Hist. Yarm.
 Top. Bot. Suff. E. and W. Galp. 129.
 Small perennial; on boggy heaths. August, Sep.
 1. Tuddenham, *Hb. Sk.*
 3. Herringfleet, *Rev. G. R. Leathes*:—Lound and Bel-
 ton Commons, *Wigg*:—Bungay (H.S.), *Galp.*
 4. Westleton, *Davy.*
 Earliest record 1805. *Rev. G. R. Leathes, &c.*

CHARACEÆ.

Chara, Ag.

13. *C. fragilis*, Desv. *Brittle Chara.*
 Bab. Man. 473. Lond. Cat. 1833.
 Leafless submerged aquatic; in streams, ditches and
 pools. June to August.
 1. Coney Weston ||; Ixworth Thorpe; Mildenhall Fen,
 Lakenheath. This last plant approaches, *C. capillacea*,
Coss & G.
 4. Redgrave Fen.
- d. C. Hedwigii*, Kuetz. *Hedwig's Chara.*
 Bab. Man. 473. Lond. Cat. 1833.d.
 1. Suffolk, W., *W. M. Hind.* *Comm. A. Bennett., J. of*
B., Jany, 1883, p. 20.
 Earliest notice 1876. *Hind.*
10. *C. aspera*, Willd. *Rough Chara.*
 Bab. Man. 472. Lond. Cat. 1836. Galp. 125.
 Leafless submerged aquatic; in fen pools and lakes.
 July, August.
 1. Coney and Market Weston and Hopton Fens.

3. Benacre Broad ||.

4. Redgrave Fen || :—Weybread Mill, *H.B.C.*
Earliest notice 1876. Hind.

7. *C. polyacantha*, *A. Braun.* *Prickly Chara.*

Bab. Man. 472. Lond. Cat. 1837.

Leafless submerged aquatic ; in fen pools and ponds.
June, July.

1. Bugg's Hole, Thelnetham || ; Market Weston ;
Sapiston :—Barton Mere, *C.B.*

First notice July 10, 1883. Hind.

5. *C. contraria*, *Kuetz.* *Opposite Chara.*

Bab. Man. 471. Lond. Cat. 1839.

Leafless submerged aquatic ; in pools. July.

1. Lakenheath ? 1883. Hind.

6. *C. hispida*, *Linn.* *Hispid Chara.*

Bab. Man. 471, 2. H. & S. 113. Hist. Yarm. Lond. Cat. 1842.

Leafless submerged aquatic ; in ditches, pits & fen pools.
'Frequent in the fen commons of Suffolk.' *With.*

May to August,

1. Hopton Fen || ; Thelnetham ; Sapiston ; Livermere ;
Lakenheath :—Mildenhall, *Hb. Blk.* :—Lackford Bridge,
Sir T. G. Cullum.

3. Belton Common, *D. Turner* :—bogs on Bradwell
Common, *Wigg.*

4. Redgrave Fen || :—Rendham, *E.N.B.*

Earliest record 1774. Sir J. Cullum.

4. *C. vulgaris*, *Linn.* *C. foetida*, *A. Braun.*
Common Chara.

Bab. Man. 471. H. & S. 113. Hist. Yarm. Lond. Cat. 1843.
Galp. 125.

Leafless submerged aquatic ; in ditches, streams and
ponds. June.

1. Ixworth Thorpe || ; Coney Weston || ; Hopton ;
Bardwell ; Livermere ; Lakenheath ; Mildenhall :—Barton
Mere, *C.B.*

2. Hitcham.

3. St. Olave's Bridge ; Beccles and Kessingland :—
Gorleston, *Paget.*

4. Eye ; Oakley :—between Redgave and Mellis, *A.B.* :—Mendham Marshes, *H.B.C.* :—Framlingham, *Crabbe*.

b. C. longibracteata, Kuetz. *Long bracted Chara.*

Bab. Man. 471. Lond. Cat. 1843.b. Suffolk East, 1874,
F. J. Hanbury. J. of B. Jan. 1883, p. 20.

1. Thelnetham, 1883 ; Livermere||, 1885 ; The Lark, Mildenhall, 1886.

3. Kessingland, 1886. 4. Saxmundham, *E.N.B.*

c. C. papillata, Wallr. *Papillate Chara.*

Lond. Cat. 1843.c. Suffolk East, 1883, G. C. Druce and Bolton King.

1. Thelnetham, June 28, 1883.

Earliest record 1773. Sir J. Cullum.

Tolypella, *Leonh.*

4. *T. intricata*, *Leonh.* *T. polysperma*, Ziz.
Intricate Tolypella.

Bab. Man. 470. H. & S. 113. Lond. Cat. 1851.

Leafless submerged aquatic ; in running water.

April, May.

1. Bury St. Edmunds. Bab. Man. edd. 6-8.

Earliest record 1860.

2. *T. glomerata*, *Leonh.* *Glomerate Tolypella.*

Bab. Man. 470. Lond. Cat. 1849.

Leafless submerged aquatic ; usually in brackish ponds or ditches.

April.

1. Lakenheath, *G. C. Druce*, 1883.

Nitella *Agardh.*

4. *N. translucens*, *Agardh.* *Translucent Nitella.*

Bab. Man. 469. H. & S. 113. Hist. Yarm. Lond. Cat. 1855.

Leafless submerged aquatic ; in deep stagnant pools.

July.

3. Browston, in a turf-pit near the water, *Sir W. J. Hooker.*

Earliest record 1812. Sir W. J. Hooker.

1. *N. flexilis*, *Agardh.* *Flexile Nitella.*

Bab. Man. 468. Hist. Yarm. Lond. Cat. 1856.

Leafless submerged aquatic ; in pools and ditches. May.

3. Hopton Common, *Stone* :—ditch near Fritton Decoy,
Sk. ms.

5. Frequent in the ponds about Henley, not far from
Ipswich, *Budd in Dill. Ray.*

Earliest record 1724. Buddle.

2. *N. opaca*, *Agardh.* *Opaque Nitella.*

Bab. Man. 469. Lond. Cat. 1857.

Leafless submerged aquatic ; in pools and ditches.

May, June.

1. Lakenheath, 1883, *G. C. Druce.*

2. Suffolk East, 1799, *D. Turner (in Linn. Soc. Herb.)*



PALÆONTOLOGICAL BOTANY

OF

SUFFOLK.

DICOTYLEDONES.

- Thalictrum flavum*, *Linn.* *Meadow Rue.*
The achenes common at Pakefield, *Reid.*
- Ranunculus aquatilis*, *Linn.* *Water Crowfoot.*
Achenes abundant nearly everywhere in the Upper and Lower fresh water beds, *Reid* :—Hoxne, *Reid and Ridley.*
- Ranunculus sceleratus*, *Linn.* *Celery-leaved Crowfoot.*
Achenes, Hoxne, *Reid and Ridley.*
- Ranunculus Flammula*, *Linn.* *Lesser Spearwort.*
Achenes, Hoxne, *Reid and Ridley.*
- Ranunculus repens*, *Linn.* *Creeping Crowfoot.*
Pakefield, *Reid* :—Achenes, Hoxne, *Reid and Ridley.*
- Nuphar lutea*, *Sm.* *Yellow Water Lily.*
One of the commonest plants, nearly everywhere, *Reid.*
- Prunus spinosa*, *Linn.* *Sloe.*
Rare, Pakefield, *Reid.*
- Comarum palustre*, *Linn.* *Marsh Cinquefoil.*
Fruits, Hoxne, *Reid and Ridley.*
- Rubus Idæus*, *Linn.* *Raspberry.*
Stones, Hoxne, *Reid and Ridley.*
- Rubus fruticosus*, *Linn.* *Blackberry.*
Pakefield, *Reid.*
- Trapa natans*, *Linn.* *Water Caltrops.*
Pakefield, *Reid.* Now extinct in Britain.
- Myriophyllum spicatum*, *Linn.* *Spiked Milfoil.*
Fruit, Pakefield, *R. E. Leach.*

- Hippuris vulgaris*, Linn. *Mare's-tail.*
Fruits, Hoxne, *Reid and Ridley.*
- Enanthe Lachenalii*, Gmel. *Marsh Water Dropwort.*
Pakefield, *Reid.*
- Enanthe Phellandrium*, Lam. *Fine-leaved Water Dropwort.*
Fruits, Hoxne, *Reid and Ridley.*
- Heracleum Sphondylium*, Linn. *Cow-Parsnep.*
A single well-preserved detached carpel has been found
at Pakefield, *Reid and R. E. Leach.*
- Cornus sanguinea*, Linn. *Dog-wood.*
One unusually large seed, Hoxne, *Reid and Ridley.*
- Bidens cernua*, Linn. *Nodding Bur-Marigold.*
Two fruits, Hoxne, *Reid and Ridley.*
- Bidens tripartita*, Linn. *Three-cleft Bur-Marigold.*
Three Achenes at Kessingland, *Reid and Ridley* :—
Pakefield, *R. E. Leach.*
- Picris hieracioides*, Linn. *Hawkweed Picris.*
Fruit, Pakefield, *R. E. Leach.*
- Lycopus europæus*, Linn. *Gipsy Wort.*
Nutlet, Pakefield, *R. E. Leach.*
- Suaeda maritima*, Dum. *Sea Blite.*
Seeds corresponding exactly with this species, except
that they are slightly smaller than my recent specimens,
occur in numerous localities, *Reid.*
- Atriplex patula*, Wahlb. *Spreading Orache.*
Pakefield, *Reid.*
- Rumex maritimus*, Linn. *Golden Dock.*
Fruit common at most localities of the upper Fresh-
water bed, *Reid.* *Rumex sp.* Fruit, Pakefield,
R. E. Leach.
- Euphorbia amygdaloides*, Linn. *Wood Spurge.*
Seed, Pakefield, *R. E. Leach.*
- Ceratophyllum demersum*, Linn. *Hornwort.*
Fruit common at nearly all localities, *Reid* :—Fruits,
Hoxne, *Reid and Ridley.*

Salix polaris, *Wahlb.* Now extinct in Britain. *Polar Willow*.
A stem, leaves and fruits, Hoxne, *Reid and Ridley*.

Salix Myrsinites, *Linn.* *Whortle-leaved Willow*.
Leaves and fruit, Hoxne, *Reid and Ridley*. This was at first sight supposed to be *Vaccinium Myrtillus*, *Bilberry*, the leaves of both plants being much alike. See *Prof. Prestwich. Memoirs of the Geological Survey, on Quarter Sheet No. 50, N.E.*

Salix spp. Willow wood is common in the estuarine beds.
Reid.

Betula alba, *Koch.* *B. verrucosa*, *Ehrh.* *White Birch*.
Birch twigs are found in the estuarine beds, *Reid*.

Betula nana, *Linn.* *Dwarf Birch*.
Leaves, Hoxne, *Reid and Ridley*.

Alnus glutinosa *Gærtn.* *Alder*.
Cones and seeds, Hoxne, *Reid and Ridley*:—submerged forest, Orwell, *Taylor*.

Fagus silvatica, *Linn.* *Beech*.
Submerged forest, Orwell, *Taylor*.

Quercus Robur, *Linn.* *Oak*.
Leaves and acorn cups at Pakefield, *Reid*:—Sicklesmere, *H. Prigg*:—Hoxne, *Prof. Prestwich*:—*Q. humilis*, submerged forest, Orwell, *Taylor*.

Corylus Avellana, *Linn.* *Hazel*.
Submerged forest, Orwell.

Carpinus Betulus, *Linn.* *Hornbeam*.
Fruit, Pakefield, *R. E. Leach*.

Taxus baccata, *Linn.* *Yew*.
Hoxne, *Prof. Prestwich*:—wood and seed, *Reid and Ridley*:—abundant at Pakefield, *Reid*.

Pinus sp. *Pine*.
Hoxne, *Prof. Prestwich*:—bark, *Reid and Ridley*. Presumably the so-called Scotch Fir:—Orwell, *Taylor*.

Pinites succinifer, *Gapp*. This is indicated by amber found between Aldeburgh and Thorpe.

MONOCOTYLEDONES.

- Sparganium ramosum*, *Huds.* *Branched Bur-reed.*
In the peaty deposit at Pakefield, *Reid* :—one whole fruit and one bitten in two, *Hoxne, Reid and Ridley.*
- ? *Potamogeton heterophyllus*, *Schreb.* *Various-leaved Pondweed.*
- Potamogeton rufescens*, *Schrad.* *Ruddy Pondweed.*
Fruit, *Hoxne, Reid and Ridley.*
- Potamogeton crispus*, *Linn.* *Wavy Pondweed.*
Several fruits, *Hoxne, Reid and Ridley.*
- Potamogeton pusillus*, *Linn.* *Petty Pondweed.*
Fruit, *Hoxne, Reid and Ridley.*
- Potamogeton trichoides*, *Cham.* *Hairlike Pondweed,*
Drupes of this species are very plentiful at Pakefield.
Reid :—Fruit, *Hoxne, Reid and Ridley.*
- Potamogeton pectinatus*, *Linn.* *Fennel Pondweed.*
Drupes of this species, often $\frac{1}{4}$ inch, are common in most of the lacustrine clays, *Reid* :—fruit, *Hoxne, Reid and Ridley.*
- Zannichellia palustris*, *Linn.* *Horned Pondweed.*
Carpels of more than one variety of this species are found in most of the fresh water clays. At Pakefield a remarkably spinose form occurs, *Reid.* (Most likely *Z. pedicellata.*)
- Cyperus*, *sp.* In peat at the mouth of the Deben, *Taylor.*
- Cladium Mariscus*, *R. Br.* *C. germanicum*, *Schrad.*
Twig Rush.
Fruit, *Pakefield, R. E. Leach.*
- Eleocharis palustris*, *Linn.* *Marsh Clubrush.*
An imperfect nut, *Hoxne, Reid and Ridley.*
- Scirpus lacustris*, *Linn.* *Bulrush.*
Fruit, *Hoxne, Reid and Ridley* :—*Pakefield, R. E. Leach.*
- Scirpus pauciflorus*, *Lightf.* *Few-flowered Clubrush.*
Found at *Pakefield, Reid* :—Fruit, *Hoxne, Reid & Ridley.*

- Carex remota*, Linn. *Distant Spiked Carex.*
Nut in utricle, Pakefield, R. E. Leach.
- Carex ampullacea*, Linn. *Slender-beaked Bottle Carex.*
Fruits, Hoxne, Reid and Ridley.
- Carex paludosa*, Good. *Marsh Carex.*
A single fruit apparently of this species has been found at Pakefield, Reid.
- Carex riparia*, Curt ? *Great riparian Carex.*
Pakefield, R. E. Leach.

ACOTYLEDONES.

- Osmunda regalis*, Linn. *Flowering Fern.*
A few specimens of the woody stock of this fern have been found at the estuarine division of the forest bed at different localities, Reid.
- Chara*, sp.
One nucule, Hoxne, Reid and Ridley.
- Sphagnum*, sp. *Bog-moss.*
Submerged forest, Orwell, Taylor.
- Philonotis fontana*, Brid.
Hoxne, Reid and Ridley.
- Webera albicans*, Schimp.
Hoxne, Reid and Ridley.
- Bryum pallens*, Sw.
Hoxne, Reid and Ridley.
- Mnium punctatum*, Linn.
Hoxne, Reid and Ridley.
- Acroceratium sarmentosum*, Mitt.
Hoxne, Reid and Ridley.
- Acroceratium cuspidatum*, Mitt.
Hoxne, Reid and Ridley.
- Brachythecium rutabulum*, Bruch and Schimp.
Hoxne, Reid and Ridley.

Brachythecium plumosum.
Pakefield, *R. E. Leach.*

Amblystegium fluitans, Mitt.
Hoxne, *Reid and Ridley* :—Pakefield, *R. E. Leach.*

Campylium stellatum, Mitt.
Hoxne, *Reid and Ridley.*

Hylocomnium squarrosum, Schimp.
Hoxne, *Reid and Ridley.*

Eurynchium Swartzii, Turn.
Pakefield, *R. E. Leach.*

In addition to the above, remains of various plants from the forest bed have been obtained, which have not yet been identified. From the Red Crag (Eocene period), near Ipswich, remains of tropical or sub-tropical plants have been obtained, chiefly from Foxhall, Waldringfield and Bucklesham. In the Ipswich Museum are fossilized cones of *Banksia*, remains of *Pandanus* or Screw Pine, of *Niphodites*, *Tricarpolithus*, and of some Conifers and Palms. Few, if any, of these can claim to be the products of an ancient Suffolk, as they bear the marks of transposition from their original clime in some great geological convulsion of a past age.



TABULAR VIEW

of the Floras of Suffolk, Essex, Cambridgeshire and Norfolk; and of the distribution of the Plants of Suffolk in the five political divisions of the County.

The four columns on the left-hand, give a tabulated view of the plants of the four Counties named above. The Initial Letter of each County is placed in its proper column on the same line with the name of the plant, to show that it belongs to the Flora of the County indicated. A blank in any column, on the same line with a plant, infers the absence of the species in the County, the column belonging to which is so left blank. The figures in the five columns to the right of the list of plants, mark the divisions in which the plants of Suffolk severally occur.

The column headed BURY, is for Division 1—the North Western, or Stowmarket Divison. The column headed SUDBURY, is for Division 2—the Southern, or Sudbury Division. The column headed LOWESTOFT, is for Division 3—the Northern, or Lowestoft Division. The column headed EYE, is for Division 4—the North Eastern, or Eye Division. The column headed IPSWICH, is for Division 5—the South Eastern, or Woodbridge Division. In Divisions 1 and 5, the Parliamentary Boroughs have been substituted for the centres named in the Act under which they are constituted, as being more important in themselves, and more truly central. Such of the plants of the adjoining Counties as have not been found in Suffolk, are printed in italics.

Essex	Camb.	Norf.	Suff.				Bury	Sudbury	Lowestoft	Eye	Ipswich
E	C	N	S	Clematis	Vitalba...	...	1	2	3	4	5
—	—	N	S	Thalictrum	minus, <i>a</i>	<i>dunense</i> ...	—	—	3?	—	—
—	—	N	S	"	" <i>b</i>	<i>montanum</i> ..	1	—	—	—	5
E	C	N	S	"	<i>majus</i>	...	1	—	—	—	—
E	C	N	S	"	<i>flavum</i>	...	1	2	3	4	5
—	—	—	S	"	"	<i>a sphærocarpum</i>	1	2	3	4	—
—	—	—	S	"	"	<i>b riparium</i> ...	1	2	3	—	—
—	—	—	S	"	"	<i>c Morisonii</i> ...	1	—	—	—	5
E	C	N	S	Anemone	Pulsatilla	...	1	—	—	—	—
E	C	N	S	"	<i>nemorosa</i>	...	1	2	3	4	5
—	—	N	S	[	" <i>appennina</i>]	...	—	2?	—	—	5
—	—	—	S	[	" <i>ranunculoides</i>]	...	1	—	—	—	5
E	—	N	S	†	Adonis autumnalis	...	1	2	—	—	—
E	C	N	S		Myosurus minimus	...	1	2	3	4	5
E	C	N	S		Ranunculus trichophyllus	...	1	2	3	4	5
—	—	—	S	"	"	<i>Godronii</i> ...	1	2	3	4	5
E	C	N	S	"	<i>Drouetii</i>	...	1	2	3	4	5
E	C	N	S	"	<i>heterophyllus</i>	...	1	2	3	4	—
E	—	N	S	"	<i>confusus</i>	...	—	—	3	4	5
—	—	—	S	"	" <i>salsuginosus</i>	...	—	—	—	—	5
—	—	—	S	"	<i>Baudotii</i>	...	—	—	—	4	5
—	—	—	S	"	" <i>marinus</i>	...	—	—	3	—	5
E	C	N	S	"	<i>floribundus</i>	...	1	2	3	4	—
—	—	—	S	"	<i>penicillatus</i>	...	1	2	—	—	—
—	—	—	S	"	"	<i>pseudo-fluitans</i>	1	2	—	—	—
—	—	—	S	"	"	<i>submersus</i>	1	2	—	—	—
E	—	—	S	"	<i>peltatus</i>	..	1	2	—	4	—
E	C	N	S	"	<i>circinatus</i>	...	1	2	3	4	5
E	C	N	S	"	<i>fluitans</i>	...	1	—	—	4	—
E?	—	N	S	"	<i>Lenormandi</i>	...	—	—	—	—	5
E	C	N	S	"	<i>hederaceus</i>	...	1	2	3	4	5
E	C	N	S	"	<i>scleratus</i>	...	1	2	3	4	5
E	C	N	S	"	<i>Flammula</i>	...	1	2	3	4	5
—	—	N	S	"	"	<i>pseudo-reptans</i>	1	2	3	—	—
E	C	N	S	"	<i>Lingua</i>	...	1	2	3	4	5
E	C	N	S	"	<i>Ficaria</i>	...	1	2	3	4	5
E	C	N	S	"	<i>auricomus</i>	...	1	2	3	4	5
E	C	N	S	"	<i>acris</i>	...	1	2	3	4	5
—	—	N	S	"	"	<i>tomophyllus</i> ...	1	—	—	—	—
E	C	N	S	"	<i>repens</i>	...	1	2	3	4	5
E	C	N	S	"	<i>bulbosus</i>	...	1	2	3	4	5
E	C	N	S	"	<i>hirsutus</i>	...	1	2	3	4	5
E	—	—	S	"	"	<i>parvulus</i>	—	—	3	4	5
E	C	N	S	"	<i>parviflorus</i>	...	—	2	3	4	5
E	C	N	S	"	<i>arvensis</i>	...	1	2	3	4	5
E	C	N	S	Caltha	palustris	...	1	2	3	4	5
E	C	N	S	"	"	<i>Guerangeri</i> ...	1	2	—	—	—
—	—	N	S	[	Eranthis hiemalis]	...	1	2	3	—	—
E	C	N	S		Helleborus viridis	...	1	2	3	4	5
E	C	N	S	"	<i>foetidus</i>	...	1	2	3	4	5

Essex	Camb.	Norf.	Suff.				Bury	Sudbury	Lowestft	Eye	Ipswich
E	C	N	S	<i>Aquilegia vulgaris</i>	...	...	1	2	3	4	5
E	C	N	S	<i>Delphinium Ajacis</i>	...	...	1	2	—	4	5
—	—	N	S	[<i>Aconitum Napellus</i>]	...	...	—	—	3	—	—
E	C	N	S	<i>Berberis vulgaris</i>	...	...	1	2	3	4	5
—	—	—	S	[<i>Mahonia aquifolia</i>]	...	...	—	2	—	—	—
E	C	N	S	<i>Nymphaea alba</i>	...	...	1	2	3	4	5
—	—	—	S	" " minor	...	...	—	2	—	—	—
E	C	N	S	<i>Nuphar lutea</i>	...	...	1	2	3	4	5
E	C	N	S	† <i>Papaver Argemone</i>	...	...	1	2	3	4	5
E	C	N	S	† " hybridum	...	..	1	—	3	—	5
E	C	N	S	† " <i>Rhœas</i>	...	...	1	2	3	4	5
E	—	—	S	" " <i>strigosa</i>	...	...	1	2	3	—	—
E	C	N	S	† " <i>dubium</i>	...	...	1	2	3	4	5
E	C	N	S	† " <i>Lecoqii</i>	...	...	1	2	—	—	—
E	C	N	S	† " <i>somniferum</i>	...	...	1	2	3	4	5
—	C	—	—	† <i>Rœmeria hybrida</i>	...	...	—	—	—	—	—
E	C	N	S	<i>Glaucium luteum</i>	...	...	—	—	3	4	5
E	C	N	S	<i>Chelidonium majus</i>	...	...	1	2	3	4	5
E	—	—	S	[<i>Corydalis solida</i>]	...	...	—	2	3	—	—
E	—	—	S	* " <i>lutea</i>	...	...	1	2	—	4	5
E	—	N	S	" <i>claviculata</i>	...	...	—	—	—	4	5
—	—	—	S	[" <i>capnoides</i>]	...	...	1	—	—	—	—
E?	C?	N	S	<i>Fumaria pallidiflora</i>	...	...	—	—	3	—	5
—	—	—	S	" " <i>Boræi</i>	...	...	—	—	3	4	—
—	—	—	S	" <i>confusa</i>	...	...	1	—	3	—	—
—	—	—	S	" <i>muralis</i>	...	...	1	2	3	—	—
E	C	N	S	" <i>officinalis</i>	...	...	1	2	3	4	5
E	C	N	S	" <i>densiflora</i>	...	...	1	—	—	—	—
E	C	N	S	" <i>parviflora</i>	...	...	1	—	3?	—	5
E	C	—	S	" <i>Vaillantii</i>	...	...	1	—	—	—	—
E	C	N	S	<i>Cheiranthus Cheiri</i>	...	...	1	—	3	4	5
E	C	N	S	<i>Nasturtium officinale</i>	...	...	1	2	3	4	5
—	—	—	S	" " <i>microphyllum</i>	...	...	1	—	—	—	—
—	—	—	S	" " <i>siifolium</i>	...	...	1	2	—	4	—
E	C	N	S	" <i>silvestre</i>	...	..	1	—	3	4	—
E	C	N	S	" <i>palustre</i>	...	...	1	2	3	4	5
E	C	N	S	<i>Barbarea vulgaris</i>	...	...	1	2	3	4	5
—	C	N	S	" " <i>arcuata</i>	...	...	1	—	—	—	—
E	—	—	S	" <i>stricta</i>	...	...	1	2	—	—	—
—	—	—	S	† " <i>intermedia</i>	...	...	—	2	—	—	—
E	—	N	S	† " <i>præcox</i>	...	...	1	—	3	—	—
—	C	N	S	<i>Arabis hirsuta</i>	...	...	1	2	—	4	5
—	C	—	—	" <i>Turrita</i>	...	...	—	—	—	—	—
E	C	N	S	" <i>perfoliata</i>	...	...	1	2	3	4	5
—	—	—	S	<i>Cardamine impatiens</i>	...	...	1	—	—	—	—
E	—	N	S	" <i>flexuosa</i>	...	...	—	2	—	4	5
E	C	N	S	" <i>hirsuta</i>	1	2	3	4	5
E	C	N	S	" <i>pratensis</i>	1	2	3	4	5
E	—	N	S	" <i>amara</i>	1	2	3	4	5
E	—	—	S	* <i>Hesperis matronalis</i>	1	—	3	—	—

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Essex	Camb.	Norf.	Suff.				Bury	Sudbury	Lowestft	Eye	Ipswich
E	C	N	S	Sisymbrium officinale	1	2	3	4	5
E?	—	—	S	[„ polyceratum]	...	...	1	—	—	—	—
E	C	—	S	„ Irio	...	...	1	—	—	—	—
—	—	—	S	[„ pannonicum]	...	...	—	—	3	—	—
E	C	N	S	„ Sophia	...	...	1	2	3	4	5
E	C	N	S	„ thalianum	...	...	1	2	3	4	5
E	C	N	S	Alliarea officinalis	...	...	1	2	3	4	5
E	C	N	S	Erysimum cheiranthoides	...	...	1	2	3	4	5
E	—	—	S	[„ orientale]	...	...	—	2	—	—	5
E	—	N	S	Brassica oleracea	...	...	—	—	3	—	5
E	C	—	S	„ campestris	...	...	1	2	—	4	5
E	C	N	S	„ „ Rapa	...	...	1	2	—	4	5
E	C	N	S	„ „ Napus	...	...	1	2	3	4	5
—	—	N	S?	„ „ Rutabaga	...	...	?	?	?	?	?
E	C	N	S	Sinapis nigra	...	...	1	2	3	4	5
E	C	N	S	„ „ arvensis	...	...	1	2	3	4	5
E	C	N	S	„ „ alba	...	...	1	2	3	4	5
—	—	—	S	[„ incana]	...	...	1	—	—	—	—
E	—	—	S	[Erucastrum Pollichii]	...	...	1	—	—	—	—
E	—	N	S	Diploxaxis tenuifolia	...	...	1	—	3	4	5
E	C	N	S	„ muralis	...	...	1	2	3	4	5
—	—	—	S	„ „ Babingtonii	...	...	1	—	—	—	5
—	—	—	S	[Berteroa incana]	...	...	1	2	—	—	—
E	C	N	S	*Alyssum calycinum	...	...	1	—	—	—	—
E	—	N	S	[„ maritimum]	...	...	—	—	3	—	5
E	C	N	S	Draba verna	...	...	1	2	3	4	5
—	—	N	—	„ muralis	...	...	—	—	—	—	—
E	—	N	S	Cochlearia officinalis	...	...	—	—	3	—	5
E	—	N	S	„ danica	...	...	—	—	3	4	5
E	C	N	S	„ anglica	...	...	—	—	3	4	5
E	C	N	S	[Armoracia rusticana]	...	...	1	2	3	4	5
E	C	N	S	„ amphibia	...	...	1	—	3	4	5
E	—	N	S	[Camelina sativa	...	...	1	2	3	—	5
E	C	N	S	Thlaspi arvense	...	...	1	2	3	4	5
E	C	N	S	Teesdalia nudicaulis	...	...	1	—	3	4	5
E	C	N	S	[Iberis amara]	...	...	1	2	—	—	—
E	C	N	S	[Lepidium Draba]	...	...	1	2	—	—	5
E	C	N	S	„ campestre	...	...	1	2	3	4	—
?	—	N	S	„ Smithii	...	...	—	2	3	—	5
E	—	—	S	[„ sativum]	...	...	1	—	—	—	—
E	C	N	S	„ ruderale	...	...	—	—	3	4	5
E	C	N	S	„ latifolium	...	...	—	—	—	4	5
E	C	N	S	Capsella Bursa-pastoris	...	...	1	2	3	4	5
E	C	N	S	Senebiera Coronopus	...	...	1	2	3	4	5
E	—	N	S?	[„ didyma]	...	...	—	2?	—	—	—
E	C	N	S	†Isatis tinctoria	...	...	1	—	—	—	5
E	—	N	S	Cakile maritima	...	...	—	—	3	4	5
E	—	N	S	Crambe maritima	...	...	—	—	3	4	5
E	C	N	S	Raphanus Raphanistrum	...	...	1	2	3	4	5
—	—	N	S	„ maritimus	...	...	—	—	3	4	—

Essex	Camb.	Norf.	Suff.				Bury	Sudbury	Lowestoft	Eye	Ipswich
—	—	—	S	[<i>Bunias orientalis</i>]	...	...	1	—	—	—	—
E	C	N	S	<i>Reseda lutea</i>	...	...	1	2	3	4	5
—	—	—	S	„ <i>suffruticulosa</i>	...	...	—	—	3	—	—
E	C	N	S	„ <i>Luteola</i>	...	...	1	2	3	4	5
E	C	N	S	<i>Helianthemum vulgare</i>	...	...	1	2	3	4	5
E	—	N	S	<i>Viola palustris</i>	...	...	1?	—	3	—	—
E	C	N	S	„ <i>odorata</i>	...	...	1	2	3	4	5
E	C	N	S	„ <i>hirta</i>	...	...	1	2	—	4	5
E	C	N	S	„ <i>silvatica</i>	...	...	1	2	3	4	5
—	—	N	S	„ <i>Reichenbachiana</i>	...	...	1	2	3	4	—
E	C	N	S	„ <i>canina</i>	...	...	1	—	3	4	—
—	—	—	S	„ „ <i>lancifolia</i>	...	...	—	—	3	4	—
—	—	N	S	„ „ <i>flavicornis</i>	...	...	1	—	3	—	—
—	C	—	—	„ <i>stagnina</i>	...	...	—	—	—	—	—
—	—	—	S	„ <i>lutea—amoena</i>	...	...	1	—	—	—	—
E	—	N	S	„ <i>tricolor</i>	...	...	1	2	3	4	5
E	C	N	S	„ <i>arvensis</i>	...	...	1	2	3	4	5
E	C	N	S	<i>Drosera rotundifolia</i>	...	...	1	—	3	4	—
—	C	N	S	„ <i>intermedia</i>	...	...	1	—	3	4	—
—	C	N	S	„ <i>anglica</i>	...	...	1	—	—	4	—
E	C	N	S	<i>Frankenia lævis</i>	...	...	—	—	3	4	5
E	C	N	S	<i>Polygala vulgaris</i>	...	...	1	2	3	4	5
—	—	—	S	„ var. <i>oxyptera</i>	...	...	1	—	—	—	—
E	—	N	S	„ „ <i>depressa</i>	...	...	1	2	—	—	—
—	—	—	S	„ „ <i>ciliata</i>	...	...	1	—	—	—	—
E	—	N	S	<i>Dianthus Armeria</i>	...	...	1	2	3	4	5
—	—	N	—	„ <i>prolifer</i>	...	...	—	—	—	—	—
E	—	—	S *	„ <i>plumarius</i>	...	...	1	—	—	—	—
—	C	—	S *	„ <i>Caryophyllus</i>	...	...	—	—	—	4	—
—	C	N	S	„ <i>deltoides</i>	...	...	1	—	—	—	5?
E	C	N	S	* <i>Saponaria officinalis</i>	...	...	1	2	3	4	5
—	—	—	S	[„ <i>Vaccaria</i>]	...	...	—	—	3	—	—
E	C	N	S	<i>Silene gallica</i>	...	...	1	2	3	4	5
—	—	—	S	„ „ <i>quinquevulnera</i>	...	...	1	—	—	—	5
—	—	N	S	[„ <i>nutans</i>]	...	...	—	—	—	—	5
—	—	N	S	„ <i>Otites</i>	...	...	1	—	—	—	—
E	C	N	S	„ <i>inflata</i>	...	...	1	2	3	4	5
E	—	N	S	„ <i>maritima</i>	...	...	—	—	3	4	5
?	—	N	S	„ <i>conica</i>	...	...	1	—	—	—	5
E	C	N	S	„ <i>noctiflora</i>	...	...	1	2	3	4	5
—	—	—	S?	[„ <i>catholica</i>]	...	...	1?	—	—	—	—
E	C	N	S	<i>Lychnis Flos-cuculi</i>	...	...	1	2	3	4	5
E	C	N	S	„ <i>vespertina</i>	...	...	1	2	3	4	5
E	—	N	S	„ <i>diurna</i>	...	...	1	2	3	4	5
E	C	N	S	„ <i>Githago</i>	...	...	1	2	3	4	5
—	—	—	S?	[<i>Buffonia tenuifolia</i>]	...	...	—	—	3?	—	—
E	C	N	S	<i>Sagina procumbens</i>	...	...	1	2	3	4	5
—	—	—	S	„ „ <i>maritima</i>	...	...	—	—	3	—	—
—	—	—	S	„ „ <i>spinosa</i>	...	...	1	—	—	—	—
E	C	N	S	„ <i>apetala</i>	...	...	1	2	3	4	5

Essex	Camb.	Norf.	Suff.				Bury	Sudbury	Lowestft	Eye	Ipswich
—	—	—	S	Sagina var. prostrata	...	...	1	—	3	—	—
E	C	N	S	" ciliata	...	...	1	—	3	—	—
E	—	N	S	" maritima	...	...	—	—	3	4	5
—	C	—	—	" " densa	...	...	—	—	—	—	—
E	C	N	S	" nodosa	...	...	1	—	3	4	5
E	—	N	S	Honkeneja peploides	...	...	—	—	3	4	5
E	C	N	S	Alsine tenuifolia	...	...	1	2	—	—	5
—	—	—	S	" " laxa	...	...	1	—	—	—	—
—	—	—	S	" " hybrida	...	...	1	—	—	—	—
E	C	N	S	Arenaria Trinervia	...	...	1	2	3	4	5
E	C	N	S	" serpyllifolia	...	...	1	2	3	4	5
E	C	N	S	" leptoclados	...	...	1	2	3	4	5
—	—	N	S	Holosteum umbellatum	...	...	1	—	—	4	—
E	C	N	S	Stellaria media	...	...	1	2	3	4	5
—	—	—	S	" var. Boræana	...	...	1	—	3	—	—
E	—	—	S	" neglecta	...	...	1	2	—	—	—
—	—	—	S	" umbrosa	...	...	1	—	—	—	—
—	—	N	—	Stellaria nemorum	...	...	—	—	—	—	—
E	C	N	S	" Holostea	...	...	1	2	3	4	5
E	C	N	S	" glauca	...	...	1	—	3	4	5
E	C	N	S	" graminea	...	...	1	2	3	4	5
E	C	N	S	" uliginosa	...	...	1	2	3	4	5
E	C	N	S	Malachium aquaticum	...	...	1	2	3	4	5
E	C	N	S	Cerastium glomeratum	...	...	1	2	3	4	5
E	C	N	S	" triviale	...	...	1	2	3	4	5
E	C	N	S	" semidecandrum	...	...	1	2	3	4	5
E	—	N	S	" tetrandrum	...	...	1	—	3	4	5
E	C	N	S	" arvense	...	...	1	—	3	4	5
E	C	N	S	Moenchia erecta	...	...	1	—	3	4	5
E	C	N	S	Lepigonum rubrum	...	...	1	—	3	4	5
E	C	N	S	" salinum	...	...	—	—	3	4	5
—	—	N	S	" " neglectum	...	...	—	—	—	4	5
E	C	N	S	" marinum	...	...	—	—	3	4	5
E	C	N	S	Spergula arvensis	...	...	1	2	3	4	5
E	C	N	S	Scleranthus annuus	...	...	1	2	3	4	5
—	—	N	S	" " biennis	...	...	1	2	3	4	5
—	—	N	S	" perennis	...	...	1	—	—	—	—
E	C	N	S	Malva moschata	...	...	1	2	3	4	5
E	C	N	S	" silvestris	...	...	1	2	3	4	5
E	C	N	S	" rotundifolia	...	...	1	2	3	4	5
E	C	N	S	Althæa officinalis	...	...	1?	—	3	4	5
E	—	—	S	Lavatera arborea	...	...	—	—	3	—	5
E	—	—	—	L. olbia	...	...	—	—	—	—	—
E	C	N	S	Tilia intermedia	...	...	1	2	3	4	—
E	C	N	S	" parvifolia	...	...	1	2	—	4	5
E	—	N	S	† " grandifolia	...	...	1	—	3	—	—
—	?	N	—	[Hypericum hircinum]	...	...	—	—	—	—	—
?	—	N	S*	" calycinum	...	...	1	2	—	—	5
E	—	N	S	" Androsæmum	...	...	1	2	3	—	—
E	C	N	S	" tetrapterum	...	...	1	2	3	4	5

Essex	Camb.	Norf.	Suff.				Bury	Sudbury	Lowestft	Eye	Ipswich
E	C	N	S	Hypericum	perforatum	... ..	1	2	3	4	5
—	—	—	S	"	"	angustifolium	1	—	3	4	5
E	—	N	S	"	dubium	... ..	1	2	—	4	5
—	—	—	S	"	"	maculatum	1	—	—	—	—
E	C	N	S	"	humifusum	... ..	1	—	3	4	5
E	C	N	S	"	hirsutum	... ..	1	2	3	4	5
—	—	N	—	"	montanum	... ..	—	—	—	—	—
E	C	N	S	"	pulchrum	... ..	1	2	3	4	5
E	C	N	S	"	elodes	... ..	1	—	3	4	—
E	C	N	S	Acer	campestre	... ..	1	2	3	4	5
E	C	N	S	†	" Pseudo-platanus	... ..	1	2	3	4	5
—	C	—	S	†	Geranium phæum	... ..	1	2	3	4	5
E	C	N	S	"	pratense	... ..	1	2	?	4	5
—	—	N	S	[	" silvaticum]	... ..	—	2	—	—	—
E	C	N	S	"	sanguineum	... ..	1	—	—	4	5
E	C	N	S	"	pyrenaicum	... ..	1	2	3	4	5
E	C	N	S	"	molle	... ..	1	2	3	4	5
E	C	N	S	"	rotundifolium	... ..	1	—	—	4	5
E	C	N	S	"	pusillum	... ..	1	2	3	4	5
E	C	N	S	"	dissectum	... ..	1	2	3	4	5
E	C	N	S	"	columbinum	... ..	1	2	3	4	5
E	C	N	S	"	lucidum	... ..	1	2	3	4	5
E	C	N	S	"	robertianum	— ...	1	2	3	4	5
—	—	—	S	"	"	purpureum	—	—	—	—	5
E	C	N	S	Erodium	cicutarium	... ..	1	2	3	4	5
—	—	—	S	"	"	pimpinellifolium	1	—	3	—	5
—	—	—	S	"	"	chærophyllum...	1	—	—	—	5
E?	C	N	S	"	moschatum	... ..	—	2	3	—	—
—	—	N	S	[	" maritimum]	... ..	1?	—	—	—	—
E	C	—	S	[	Impatiens parviflora]	... ..	1	—	—	—	5
—	—	N	—	[	" Noli-me-tangere]	... ..	—	—	—	—	—
E	C	N	S	Oxalis	Acetosella	... ..	1	2	3	4	5
—	—	N	S	†	" corniculata	... ..	1?	—	—	4?	—
—	—	—	S	"	stricta	... ..	1?	—	—	—	—
E	—	N	S	Linum	angustifolium	... ..	—	—	3	4	—
E	C	N	S	[	" usitatissimum]	... ..	1	2	3	4	5
E	C	N	S	"	perenne	... ..	1	—	—	—	—
E	C	N	S	"	catharticum	... ..	1	2	3	4	5
E	C	N	S	Radiola	Millegrana	... ..	1	—	3	4	—
E	C	N	S	Euonymus	europæus	... ..	1	2	3	4	5
E	C	N	S	Rhamnus	catharticus	... ..	1	2	3	4	5
E	C	N	S	"	Frangula	... ..	1	2	3	4	5
E	C	N	S	Ulex	europæus	... ..	1	2	3	4	5
E	C	N	S	"	nanus	... ..	1	—	3	4	5
—	—	N	S	"	Gallii	... ..	—	—	3	4	5
—	—	—	S	Genista	pilosa	... ..	1	—	—	—	—
E	C	N	S	"	tinctoria	... ..	1	2	3	4	5
E	C	N	S	"	anglica	... ..	1	—	3	4	5
E	C	N	S	Sarothamnus	scoparius	... ..	1	2	3	4	5
E	C	N	S	Ononis	arvensis, inermis	... ..	1	2	3	4	5

Essex	Camb	Norf.	Suff.			Bury	Sudbury	Lowestft	Eye	Ipswich
—	—	—	S	<i>Ononis arvensis</i> , <i>maritima</i> ...	...	—	—	3	—	5
—	—	N	S	" " <i>horrida</i> ...	...	—	—	3	—	5
E	C	N	S	" <i>campestris</i> ...	...	1	2	3	4	5
E	C?	N	S	* <i>Medicago sativa</i> ...	...	1	2	3	4	5
—	C	N	S	" <i>silvestris</i> ...	...	1	—	—	—	—
E	C	N	S	" <i>falcata</i> ...	...	1	—	3	4	5
E	C	N	S	" <i>lupulina</i> ...	...	1	2	3	4	5
E	C	N	S	" <i>maculata</i> ...	...	1	2	3	4	5
E	C	N	S	" <i>minima</i> ...	...	1	—	3	4	5
E	—	N	S	" <i>denticulata</i> ...	...	—	2	—	4	5
E	C	N	S	<i>Melilotus officinalis</i> ...	...	1	2	3	4	5
E	C	N	S	" <i>arvensis</i> ...	...	1	2	—	4	5
E	—	N	S	" <i>alba</i> ...	...	1	2	—	—	—
—	—	—	S	[" <i>parviflora</i> ] ...	...	—	—	3	—	—
E	C	N	S	<i>Trifolium pratense</i> ...	...	1	2	3	4	5
—	—	—	S	" " <i>parviflorum</i> ...	...	—	2	—	—	—
E	C	N	S	" <i>medium</i> ...	...	1	2	3	4	5
E	C	N	S	" <i>ochroleucum</i> ...	...	1	2	3	4	5
—	—	N	S	[" <i>incarnatum</i> ] ...	...	1	2	3	4	5
—	—	—	S	[<i>Trifolium stellatum</i> ] ...	...	—	—	3	—	—
E	C	N	S	" <i>arvense</i> ...	...	1	2	3	4	5
E	C	N	S	" <i>striatum</i> ...	...	1	2	3	4	5
E	C	N	S	" <i>scabrum</i> ...	...	1	—	3	4	5
—	—	—	S	[" <i>squarrosum</i> ] ...	...	1	2	—	—	—
E	—	N	S	" <i>maritimum</i> ...	...	—	—	3	—	5
E	C	N	S	" <i>subterraneum</i> ...	...	1	—	3	4	5
E	—	N	S	" <i>glomeratum</i> ...	...	1	—	3	4	5
E?	—	N	S	" <i>suffocatum</i> ...	...	—	—	3	4	5
E	C	N	S	" <i>repens</i> ...	...	1	2	3	4	5
E	—	N	S	" <i>hybridum-elegans</i> ...	...	1	2	—	4	—
E	C	N	S	" <i>fragiferum</i> ...	...	1	2	3	4	5
—	—	—	S	[" <i>resupinatum</i> ] ...	...	—	—	3	—	—
E	C	N	S	" <i>procumbens</i> ...	...	1	2	3	4	5
E	C	N	S	" <i>minus</i> ...	...	1	2	3	4	5
E	C	N	S	" <i>filiforme</i> ...	...	1	2	3	4	5
E	—	N	S	<i>Falcatula ornithopodioides</i> ...	...	—	—	3	4	5
E	C	N	S	<i>Lotus corniculatus</i> ...	...	1	2	3	4	5
E	C	N	S	" " <i>tenuis</i> ...	...	1	—	3	4	5
E	C	N	S	" <i>major</i> ...	...	1	2	3	4	5
E	C	N	S	<i>Anthyllus vulneraria</i> ...	...	1	2	3	—	5
E	C	N	S	<i>Astragalus Hypoglottis</i> ...	...	1	2	—	—	—
E	C	N	S	" <i>glycyphyllos</i> ...	...	1	2	—	—	5
—	—	—	S	[<i>Vicia monanthos</i> ] ...	...	—	—	—	—	5
E	C	N	S	" <i>hirsuta</i> ...	...	1	2	3	4	5
E	C	—	S	" <i>tetrasperma</i> ...	...	1	2	3	4	5
E	C	—	S	" <i>gracilis</i> ...	...	—	2	—	—	—
—	C	—	—	" <i>silvatica</i> ...	...	—	—	—	—	—
E	C	N	S	" <i>Cracca</i> ...	...	1	2	3	4	5
E	—	—	S?	" <i>bithynica</i> ...	...	—	—	3?	—	—
E	C	N	S	" <i>sepium</i> ...	...	1	2	3	4	5

Essex	Camb.	Norf.	Suff.				Bury	Sudbury	Lowestft	Eye	Ipswich
—	—	—	S	<i>Vicia lutea</i>	...	...	1	—	—	—	5
E	C	N	S	„ <i>sativa</i>	...	...	1	2	3	4	5
E	C	N	S	„ „ <i>angustifolia</i>	...	...	1	2	3	4	5
E	C	N	S	„ „ <i>Bobartii</i>	...	...	1	2	3	4	5
—	C	N	S	„ <i>lathyroides</i>	...	...	1	—	3	4	5
E	C	N	S	<i>Lathyrus Aphaca</i>	...	...	1	2	3	—	5
E	C	N	S	„ <i>Nissolia</i>	...	...	1	2	3	4	5
—	—	—	S	[„ <i>sphæricus</i>]	...	...	—	—	—	—	5
E	—	—	—	„ <i>hirsutus</i>	...	...	—	—	—	—	—
E	C	N	S	„ <i>pratensis</i>	...	...	1	2	3	4	5
E	—	—	S	„ <i>tuberosus</i>	...	...	—	—	—	—	—
E	C	N	S	„ <i>silvestris</i>	...	...	1	2	—	—	5
—	C	N	S	„ <i>palustris</i>	...	...	1	—	3	—	5?
—	—	—	S	„ <i>maritimus</i>	...	...	—	—	—	—	5
E	—	N?	—	„ <i>macrorrhizus</i>	...	...	—	—	—	—	—
E	C	N	S	<i>Ornithopus perpusillus</i>	...	...	1	2	3	4	5
E	C	N	S	<i>Hippocrepis comosa</i>	...	...	1	2?	—	—	5
E	C	N	S	<i>Onobrychis sativa</i>	...	...	1	2	—	4	5
E	C	N	S	<i>Prunus communis</i> , (a) <i>spinosa</i>	...	...	1	2	3	4	5
E	C	N	S	„ „ (b) <i>insititia</i>	...	...	1	2	3	4	5
E	C	N	S	„ „ (c) <i>domestica</i>	...	...	1	2	3	4	5
E	C	N	S	„ <i>Padus</i>	...	...	1	—	3	4	—
E	C	N	S	„ <i>Avium</i>	...	...	1	2	—	4	5
E	C	N	S	„ <i>Cerasus</i>	...	...	1	2	3	4	5
E	C	N	S	<i>Spiræa Ulmaria</i>	...	...	1	2	3	4	5
E	C	N	S	„ <i>Filipendula</i>	...	...	1	2	—	4	—
—	C	N	S	<i>Sanguisorba officinalis</i>	...	...	1	—	—	4	—
E	C	N	S	<i>Poterium Sanguisorba</i>	...	...	1	2	3	4	5
E	C	N	S	„ <i>muricatum</i>	...	...	1	—	—	4	—
E	C	N	S	<i>Agrimonia Eupatoria</i>	...	...	1	2	3	4	5
E	—	—	—	„ <i>odorata</i>	...	...	—	—	—	—	—
E	C	N	S	<i>Alchemilla vulgaris</i>	...	...	—	2	—	—	5
E	C	N	S	„ <i>arvensis</i>	...	...	1	2	3	4	5
E	C	N	S	<i>Potentilla anserina</i>	...	...	1	2	3	4	5
E	C	N	S	„ <i>argentea</i>	...	...	1	2	3	4	5
—	C	—	S	„ <i>verna</i>	...	...	1	—	—	—	—
E	C	N	S	„ <i>reptans</i>	...	...	1	2	3	4	5
E	C	N	S	„ <i>Tormentilla</i>	...	...	1	2	3	4	5
E	C	N	S	„ <i>procumbens</i>	...	...	1	—	3	4	—
E	C	N	S	„ <i>Fragariastrum</i>	...	...	1	2	3	4	5
—	C	N	—	„ <i>norvegica</i>	...	...	—	—	—	—	—
E	—	N	S	<i>Comarum palustre</i>	...	...	1	2	3	4	5
E	C	N	S	<i>Fragaria vesca</i>	...	...	1	2	3	4	5
E	—	N	S	† „ <i>elatior</i>	...	...	1	2	—	—	5
E	C	N	S	<i>Rubus Idæus</i>	...	...	1	2	3	4	5
—	—	N	—	„ <i>suberectus</i>	...	...	—	—	—	—	—
E	—	N	S	„ <i>plicatus</i>	...	...	—	2	3	—	—
—	—	—	S	„ <i>nitidus</i>	...	...	—	—	3	—	—
E	—	N	S	„ <i>affinis</i>	...	...	—	—	3	—	—
E	—	N	S	„ <i>Lindleianus</i>	...	...	1	2	3	4	—

Essex	Camb.	Norf.	Suff.			Bury	Sudbury	Lowestoft	Eye	Ipswich
E	—	N	S	Rubus	rhamnifolius	...	1	3	—	—
—	—	—	S	"	ramosus	...	—	2	—	—
E	C	—	S	"	pubescens	...	1	—	—	5
E	C	N	S	"	rusticanus	...	1	2	3	5
E	—	N	S	"	leucostachys	...	—	2	3	—
—	—	—	S	"	" (b) conspicuus	...	1	2	—	5
—	—	—	S	"	pyramidalis	...	1	—	—	—
—	—	—	S	"	Salteri	...	—	2	—	—
—	—	N	S	"	" var. calvatus	...	—	—	3	—
E	—	N	S	"	carpinifolius	...	1	2	3	4
E	—	—	S	"	villicaulis	...	1	—	—	—
—	—	—	S	"	Maasii	...	—	—	3	—
E	—	N	S	"	macrophyllus	...	1	—	—	4
—	—	—	S	"	" (b) Schlectendalii	...	—	—	—	4
—	—	—	S	"	" (c) amplificatus	...	—	—	3	—
—	—	—	S	"	" (d) glabratus	...	1	—	—	—
—	—	N	—	"	Sprengelii. (a.) Borreri	...	—	—	—	—
—	—	—	S	"	rubicolor	...	—	—	—	4
—	—	—	S	"	thysiflorus, (b) philyrophyllus	...	1	—	—	—
—	—	N	S	"	rosaceus	...	1	2	—	—
—	—	—	S	"	" var. Hystrix	...	1	—	—	—
—	—	—	S	"	echinatus	...	1	2	—	—
E	—	—	S	"	rudis	...	—	—	—	4
E	—	—	S	"	Radula	...	1	2	—	4
E	—	—	S	"	Köchleri	...	1	—	—	—
—	—	—	S	"	" (b) infestus...	...	—	—	—	4
E	—	N	S	"	" (c) pallidus	...	1	2	—	4
—	—	—	S	"	" (f) cavatifolius	...	1	—	—	—
E	—	—	S	"	fusco-ater	...	1	—	—	—
—	C	—	S	"	diversifolius	...	1	2	—	—
—	—	—	S	"	mutabilis	...	1	2	—	—
E	—	—	S	"	Lejeunii	...	1	2	—	—
E	—	—	S	"	flexuosus	...	—	2	—	—
—	—	—	S	"	adornatus	...	—	2	—	—
—	—	—	S	"	saxicolus	...	—	2	—	—
—	—	—	S	"	foliosus	...	—	2	—	—
E	—	—	—	"	Bellardi	...	—	—	—	—
—	—	—	S	"	pendulinus	...	—	2	—	—
E	—	—	—	"	hirtus	...	—	—	—	—
E	C	N	S	"	Balfourianus	...	1	2	3	4
E	C	N	S	"	corylifolius (a) sublustris	...	1	2	3	4
—	—	—	S	"	" (b) conjungens	...	1	2	—	—
E	—	N	S	"	" (c) fasciculatus	...	1	2	3	—
E	C	N	S	"	deltoideus	...	1	—	3	—
—	C	N	S	"	scabrosus	...	1	2	3	—
E	C	N	S	"	cæsius, (a) umbrosus	...	1	2	3	5
—	—	—	S	"	" (b) tenuis	...	1	2	—	—
—	—	N	S	"	" (c) ligerinus...	...	1	2	—	4
—	—	—	S	"	" (d) intermedius	...	1	—	—	—
—	—	—	S	"	" (e) Pseudo-idæus	...	—	—	3	4

Essex	Camb.	Norf.	Suff.				Bury	Sudbury	Lowestft	Eye	Ipswich
E	C	N	S	Geum urbanum	...	...	1	2	3	4	5
E	C	N	S	[„ intermedium]	...	...	1	2	—	—	5
E	C	N	S	„ rivale	...	...	1	2	—	4	5
E	C	N	S	Rosa spinosissima	...	...	1	2	3	4	5
E?	C	N	—	„ mollis	...	...	—	—	—	—	—
E	C	N	S	„ tomentosa	...	...	1	2	3	4	5
—	—	N	S	„ (b) subglobosa	...	...	1	2	3	4	—
—	—	—	S	„ (d) scabriuscula	...	...	1	2	—	4	—
E	C	N	S	„ rubiginosa	...	...	1	2	3	4	5
—	—	N	—	„ „ comosa	...	...	—	—	—	—	—
E	C	N	S	„ micrantha	...	...	1	2	3	4	5
E	C	N	S	„ canina, (a) lutetiana	...	...	1	2	3	4	5
E	C	N	S	„ „ (b) surculosa	...	...	1	2	3	4	—
—	—	N	S	„ „ (c) sphaerica	...	...	1	2	3	—	5
—	—	—	S	„ „ (d) senticosa	...	...	1	2	—	—	5
—	—	N	S	„ „ (e) dumalis	...	...	1	2	3	4	5
—	—	—	S	„ „ (f) biserrata	...	...	1	—	—	—	—
—	—	—	S	„ „ (g) urbica	...	...	1	2	3	4	5
—	—	N	S	„ „ (h) frondosa	...	...	1	2	3	4	—
—	—	N	S	„ „ (i) arvatica	...	...	1	2	3	4	—
E	—	N	S	„ „ (j) dumetorum	...	...	1	2	—	—	—
—	—	—	S	„ „ (k) obtusifolia	...	...	—	—	—	4	—
—	—	—	S	„ „ (n) tomentella	...	...	1	2	3	—	—
—	—	—	S	„ „ (o) andegavensis	...	...	—	2	3	—	—
—	—	N	S	„ „ (p) verticillacantha	...	...	—	2	3	—	—
—	—	—	S	„ „ (u) decipiens	...	...	1	2	3	—	—
—	—	—	S	„ „ (w) suberistata	...	...	1	2	—	—	—
—	—	N	—	„ „ (z) coriifolia	...	...	—	—	—	—	—
—	—	—	S	„ „ (f*) marginata	...	...	1	—	—	—	—
—	—	—	S	„ stylosa	...	...	1	—	—	—	—
E	C	N	S	„ „ (b) systyla	...	...	1	2	—	—	—
—	—	—	S	„ „ (c) leucochroa	...	...	—	2	—	—	—
E	C	N	S	„ arvensis	...	...	1	2	3	4	5
—	—	—	S	„ „ (c) bibracteata	...	...	1	2	—	—	—
E	C	N	S	Cratægus Oxyacantha (a) oxyacanthoides	1	2	3	4	5	—	—
E	C	—	S	„ „ (b) monogyna	1	2	—	4	5	—	—
—	—	N	—	[Mespilus germanica]	...	...	—	—	—	—	—
E	C	N	S	Pyrus communis, (a) Pyrastrer	...	...	1	—	—	—	—
—	—	—	S	„ „ (b) Achras	...	...	1	—	—	4	—
E	C	N	S	„ Malus, (a) acerba	...	...	1	2	3	4	5
—	—	—	S	„ „ (b) mitis	...	...	1	2	3	4	5
E	C	N	S	„ Aucuparia	...	...	1	2	3	—	5
E	—	N	S	„ Aria	...	...	1	2	3	4	—
E	C	N	S	„ torminalis	...	...	—	—	3	4	5
E	C	N	S	Lythrum Salicaria	...	...	1	2	3	4	5
—	C	N	S	„ Hyssopifolia	...	...	1	—	—	—	—
E	C	N	S	Peplis Portula	...	...	1	—	3	4	5
—	—	—	S	Tamarix gallica	—	—	3	4	5
E	—	N	S	Epilobium angustifolium	1	—	3	4	5
—	—	N	—	„ „ brachycarpum	—	—	—	—	—

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Essex	Camb.	Norf.	Suff.				Bury	Sudbury	Lowestoft	Eye	Ipswich	
E	C	N	S	Epilobium	hirsutum	1	2	3	4	5
E	C	N	S	"	parviflorum	...	...	1	2	3	4	5
—	—	N	S	"	"	(b) rivulare	...	1	2	3	4	—
—	—	—	S	"	"	(c) intermedium	...	—	—	3	4	—
E	C	N	S	"	montanum	...	...	1	2	3	4	5
E	—	N	—	"	roseum	...	...	—	—	—	—	—
E	C	N	S	"	tetragonum	..	...	1	2	3	4	—
E	C	N	S	"	obscurum	...	...	1	—	3	4	—
E	C	N	S	"	palustre	...	...	1	2	3	4	5
E	—	N	S	[Enothera	biennis]	...	...	1	2	3	—	5
—	—	N	—	"	odorata]	...	...	—	—	—	—	—
E	C	N	S	Circaea	lutetiana	...	...	1	2	3	4	5
E	C	N	S	Myriophyllum	verticillatum	...	...	1	2	3	4	—
—	—	—	S	"	"	† pectinatum	...	1	—	—	—	—
E	C	N	S	"	spicatum	...	...	1	2	3	4	5
E	C	—	S	"	alterniflorum	...	...	1	—	—	—	—
E	C	N	S	Hippuris	vulgaris	...	...	1	2	3	4	5
E	C	N	S	Bryonia	dioica	...	...	1	2	3	4	5
E	C	N	S	Montia	fontana, (a) minor...	...	...	1	2	3	4	5
E	—	—	S	"	"	(b) rivularis	...	1	—	—	—	—
—	—	N	S	Claytonia	perfoliata	...	...	1	3	—	—	—
—	C	N	S	Herniaria	glabra	...	...	1	—	3?	—	—
—	—	N	S	Tillæa	mucosa	...	...	1	—	3	4	5
E	C	N	S	Sedum	Telephium	...	...	1	2	3	4	5
E	—	—	S	"	Fabaria	...	...	1	—	3	4	—
E	C	N	S	"	album	...	...	1	—	—	—	—
E	C	—	S	"	dasyphyllum	...	...	1	—	—	—	—
E	C	N	S	"	anglicum	...	...	—	—	3	4	5
E	C	N	S	"	acre	...	...	1	2	3	3	5
—	C	—	—	"	sexangulare	...	...	—	—	—	—	—
E	C	N	S	"	reflexum	...	...	1	—	3	4	5
—	C	—	S	"	"	(b) albescens	...	1	—	—	—	—
—	—	N	—	"	rupestre	...	...	—	—	—	—	—
E	C	N	S	Sempervivum	tectorum	...	...	1	2	—	4	5
—	—	—	S	[Cotyledon	Umbilicus]	...	...	1	2	—	4	—
E	C	N	S	† Ribes	Grossularia	...	...	1	2	3	4	5
E	C	N	S	"	nigrum	...	...	1	—	3	4	—
E	C	N	S	"	rubrum	...	...	1	2	3	4	5
E	C	N	S	Saxifrage	tridactylites	...	...	1	2	3	4	5
E	C	N	S	"	granulata	...	...	1	2	3	4	5
E	—	N	S	Chrysosplenium	alternifolium	...	...	—	2	3	4	5
E	—	N	S	"	oppositifolium	...	...	1	2	3	4	5
E	C	N	S	Parnassia	palustris	...	...	1	2	3	4	5
E	C	N	S	Hydrocotyle	vulgaris	...	...	1	2	3	4	5
E	C	N	S	Sanicula	europæa	...	...	1	2	3	4	5
E	—	N	S	Eryngium	maritimum	...	...	—	—	3	4	5
—	—	—	S	"	campestre	...	...	—	—	3	4	—
—	C	N	S	Cicuta	virosa	...	...	1	2	3	—	5
E	C	N	S	Apium	graveolens	...	...	1	2	3	4	5
E	C	N	S	"	nodiflorum	...	...	1	2	3	4	5

Essex	Camb.	Norf.	Suff.			Bury	Sudbury	Lowestoft	Eye	Ipswich
E	C	N	S	<i>Apium nodiflorum</i> (b) repens	...	1	—	3	4	—
E	C	N	S	„ inundatum	...	1	2	3	4	—
E	C	N	S	* <i>Petroselinum sativum</i>	...	1	—	3	4	5
E	C	N	S	„ segetum	...	1	—	3	—	5
E	C	N	S	<i>Sison Amomum</i>	...	1	2	3	4	5
E	C	N	S	<i>Ægopodium Podagraria</i>	...	1	2	3	4	5
—	C	—	S	[<i>Ammi majus</i>]	...	—	2	—	—	—
E	C	N	S	[<i>Carum Carui</i>]	...	1	—	—	4	5
E	C	N	S	„ flexuosum	...	1	2	3	4	5
—	C	—	—	„ <i>Bulbocastanum</i>	...	—	—	—	—	—
E	C	N	S	<i>Pimpinella magna</i>	...	1	2	3	4	—
E	C	N	S	„ <i>Saxifraga</i>	...	1	2	3	4	5
E	C	N	S	<i>Sium latifolium</i>	...	1	—	3	4	5
E	C	N	S	„ angustifolium	...	1	2	3	4	5
E	C	N	S	<i>Bupleurum tenuissimum</i>	...	—	—	3	4	5
E	—	—	—	„ <i>falcatum</i>	...	—	—	—	—	—
E	C	N	S	„ rotundifolium	...	1	2	—	4	—
E	C	N	S	<i>Cenanthe fistulosa</i>...	...	1	2	3	4	5
E	—	N	S	„ <i>pimpinelloides</i>	...	1	2	3	4?	—
E	C	N	S	„ <i>Lachenalii</i>	...	1	—	3	4	5
—	C	N	S	„ <i>silaifolia</i>	...	1?	—	—	—	—
E	—	N	—	„ <i>crocata</i>	...	1?	—	—	—	5?
E	C	N	S	„ <i>Phellandrium</i>	...	1	2	3	4	5
E	C	N	S	„ <i>fluviatilis</i>	...	1	2	3	4	5
E	C	N	S	<i>Æthusa Cynapium</i>	...	1	2	3	4	5
E	C	N	S	<i>Foeniculum officinale</i>	...	1	2	3	4	5
—	C	—	—	<i>Seseli Libanotis</i>	...	—	—	—	—	—
E	C	N	S	<i>Silaus pratensis</i>	...	1	2	3	4	5
—	—	—	S	<i>Crithmum maritimum</i>	...	—	—	3	—	—
—	C	—	—	<i>Selinum Carvifolia</i>	...	—	—	—	—	—
E	C	N	S	<i>Angelica silvestris</i>	...	1	2	3	4	5
—	—	—	S	[<i>Archangelica officinalis</i>	...	1	—	—	—	—
E	—	—	—	<i>Peucedanum officinale</i>	...	—	—	—	—	—
E	C	N	S	„ palustre	...	1	—	3	—	—
E	C	N	S	<i>Pastinaca sativa</i>	...	1	2	3	4	5
E	C	N	S	<i>Heracleum Sphondylium</i>	...	1	2	3	4	5
E	C	N	S	<i>Daucus Carota</i> ...	...	1	2	3	4	5
E	C	N	S	<i>Caucalis daucoides</i>	...	1	—	—	—	5
E	C	—	S	† „ <i>latifolia</i>	...	1	—	—	—	—
E	C	N	S	<i>Torilis Anthriscus</i>	...	1	2	3	4	5
E	C	N	S	„ <i>infesta</i>	...	1	2	3	4	5
E	C	N	S	„ <i>nodosa</i>	...	1	2	3	4	5
E	C	N	S	<i>Scandix Pecten-veneris</i>	...	1	2	3	4	5
E	C	N	S	<i>Chærophyllyum silvestre</i>	...	1	2	3	4	5
E	—	—	S	[„ <i>sativum</i>]	...	—	—	3	—	—
E	C	N	S	„ <i>Anthriscus</i>...	...	1	2	3	4	5
E	C	N	S	„ <i>temulum</i>	...	1	2	3	4	5
E	C	N	S	<i>Conium maculatum</i>	...	1	2	3	4	5
E	C	N	S	<i>Smyrniolum Olusatrum</i>	...	1	2	3	4	5
E	C	—	S	[<i>Coriandrum sativum</i>]	...	—	—	—	4	5

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Essex	Camb.	Norf.	Suff.				Bury	Sudbury	Lowestft	Eye	Ipswich	
E	C	N	S	Hedera	Helix	1	2	3	4	5
E	C	N	S	Cornus	sanguinea	...	...	1	2	3	4	5
E	C	N	S	Viscum	album	...	...	1	2	3	4	5
E	C	N	S	Adoxa	Moschatellina	...	...	1	2	3	4	5
E	C	N	S	Sambucus	Ebulus	...	...	1	2	3	4	5
E	C	N	S	"	nigra	...	...	1	2	3	4	5
E	C	N	S	Viburnum	Lantana	...	...	1	2	3	—	5
E	C	N	S	"	Opulus	...	...	1	2	3	4	5
E	C	N	S	†Lonicera	Caprifolium	...	...	1	2	3	4	—
E	C	N	S	"	Periclymenum	...	...	1	2	3	4	5
E	—	—	S	[	" Xylosteum]	...	...	—	2	—	—	—
—	—	—	S	[	Symphoricarpos racemosus]	...	...	1	2	3	—	5
E	C	N	S	Sherardia	arvensis	...	...	1	2	3	4	5
E	C	N	S	Asperula	cynanchica	...	...	1	—	—	—	—
E	C	N	S	"	odorata	...	...	1	2	3	4	5
E	C	N	S	Galium	Cruciata	...	...	1	2	3	4	5
E	C	N	S	"	tricorne	...	...	1	2	3	4	5
E	C	N	S	"	Aparine	...	...	1	2	3	4	5
E	—	—	—	"	Vaillantii	...	...	—	—	—	—	—
E	C	N	S	"	anglicum	...	...	1	—	—	—	—
E	C	N	S	"	erectum	...	...	1	—	—	4	5
—	—	—	S	[	" aristatum]	...	...	1	—	—	—	—
E	C	N	S	"	Mollugo, (a) elatum	...	...	1	2	3	4	5
—	—	—	S	"	" (b) insubricum	...	...	1	—	—	4	—
—	—	—	S	"	" (c) Bakeri	...	...	—	—	3	4	5
E	C	N	S	"	verum	...	...	1	2	3	4	5
E	C	N	S	"	saxatile	...	...	1	2	3	4	5
E	C	N	S	"	uliginosum	...	...	1	2	3	4	5
E	C	N	S	"	palustre	...	...	1	2	3	4	5
—	—	N	S	"	" Witheringii	...	...	1	2	—	4	5
E	C	—	S	"	" elongatum...	...	...	1	—	—	—	—
E	C	N	S	Centranthus	ruber	...	...	1	—	—	—	—
E	C	N	S	Valeriana	officinalis, Mikanii	...	...	1	2	3	4	5
E	C	—	S	"	" sambucifolia	...	...	1	2	3	4	5
E	C	N	S	"	dioica	...	...	1	2	3	4	5
E	C	N	S	Valerianella	olitoria	...	...	1	2	3	4	5
E	—	—	S	†	" carinata	...	...	1	2	3	—	5
E	C	—	—	"	Auricula	...	...	—	—	—	—	—
E	C	N	S	"	dentata	...	...	1	2	3	4	5
—	—	—	S	"	" (b) mixta	...	...	—	—	3	—	5
E	C	N	S	Dipsacus	silvestris	...	...	1	2	3	4	5
E	C	N	S	"	pilosus	...	...	1	2	3	4	5
E	C	N	S	Knautia	arvensis	...	...	1	2	3	4	5
E	C	N	S	Scabiosa	succisa	...	...	1	2	3	4	5
E	C	N	S	"	Columbaria	...	...	1	2	3	4	5
E	C	N	S	Eupatorium	cannabinum	...	...	1	2	3	4	5
E	C	N	S	Petasites	vulgaris	...	...	1	2	3	4	5
—	—	N	S	[	" fragrans]	...	...	1	2	3	4	—
E	C	N	S	Tussilago	Farfara	...	...	1	2	3	4	5
E	C	N	S	Aster	Tripolium	...	...	—	—	3	4	5

Essex	Camb.	Norf.	Suff.				Bury	Sudbury	Lowestoft	Eye	Ipswich
—	—	—	S	[Aster Novi Belgii]	...	...	—	—	3	4	—
E	—	N	S	*Erigeron canadensis	...	...	1	—	—	—	5
E	C	N	S	" acris	...	...	1	2	3	4	5
E	C	N	S	Bellis perennis	...	...	1	2	3	4	5
E	C	N	S	Solidago Virgaurea	...	...	1	—	3	4	5
—	—	—	S	" " angustifolia	...	...	—	—	3	—	—
E	C	N	S	Inula Helenium	...	...	1	—	3	4	5
E	C	N	S	" Conyza	...	...	1	2	3	4	5
E	—	N	?	" crithmoides	...	...	—	—	—	—	?
E	C	N	S	Pulicaria vulgaris	...	...	—	—	—	4	5
E	C	N	S	" dysenterica	...	...	1	2	3	4	5
E	C	N	S	Filago germanica	...	...	1	2	3	4	5
E	C	N	S	" apiculata	...	...	1	—	—	4	5
E	C	N	S	" spathulata	...	...	1	—	—	—	—
E	C	N	S	" minima	...	...	1	2	3	4	5
E	—	—	S	" gallica	...	...	—	—	—	—	5
—	C	N	S	Gnaphalium luteo-album	...	...	1	—	—	—	—
E	C	N	S	" uliginosum	...	...	1	2	3	4	5
E	C	N	S	" silvaticum	...	...	1	—	3	4	5
—	C	N	S	Antennaria dioica	...	...	1	—	—	—	—
E	—	N	S	[" margaritacea]	...	...	1	—	—	—	5
E	C	N	S	Achillaea Ptarmica	...	...	1	2	3	4	5
E	—	—	S	[" decolorans]	...	...	1	—	—	—	—
E	C	N	S	" Millefolium	...	...	1	2	3	4	5
E	C	N	S	Anthemis arvensis	...	...	1	2	3	4	5
E	C	N	S	" Cotula	...	...	1	2	3	4	5
E	—	—	S	[" tinctoria]	...	...	—	—	3	—	—
E	C	N	S	" nobilis	...	...	1	2	3	—	—
E	C	N	S	†Matricaria Parthenium	...	...	1	2	3	4	5
E	C	N	S	" inodora	...	...	1	2	3	4	5
E	—	N	S	" " (b) salina	...	...	—	—	—	—	5
E	C	N	S	" Chamomilla	...	...	1	2	3	—	5
E	C	N	S	Chrysanthemum Leucanthemum	...	...	1	2	3	4	5
E	C	N	S	† " segetum	...	...	1	2	3	4	5
E	—	—	S	Diotis maritima	...	...	—	—	3	4	5
E	C	N	S	Artemisia Absinthium	...	...	1	2	3	4	5
—	—	N	S	" campestris	...	...	1	—	—	—	—
E	C	N	S	" vulgaris	...	...	1	2	3	4	5
E	C	N	S	" maritima	...	...	—	—	3	4	5
E	—	N	S	" " (b) gallica	...	...	—	—	—	—	5
E	C	N	S	Tanacetum vulgare	...	...	1	2	3	4	5
E	—	N	S	†Dorenicum Pardalianches...	...	...	1	—	3	—	5
E	—	—	S	† " plantagineum	...	...	—	—	—	4	—
E	C	N	S	Senecio vulgaris	...	...	1	2	3	4	5
—	—	—	S	" " crassifolius	...	...	—	—	—	—	5
E	C	N	S	" silvaticus	...	...	1	2	3	4	5
—	—	—	S	" " lividus	...	...	1	—	—	—	—
E	C	N	S	" viscosus	...	...	1	—	3	4	5
—	—	N	S	* " squalidus	...	...	1	—	—	—	—
E	C	N	S	" erucifolius	...	...	1	2	3	4	5

Essex	Camb.	Norf.	Suff.					Bury	Sudbury	Lowestf	Eye	Ipswich
E	C	N	S	Senecio	Jacobæa	...	...	1	2	3	4	5
E	C	N	S	"	aquaticus	...	...	1	2	3	4	5
—	C	N	S	"	paludosus	...	...	1	—	—	—	—
—	C	N	S	"	palustris	...	...	1	—	3	—	—
E	C	—	S	"	campestris	...	...	1	—	—	—	—
E	C	N	S	Bidens	tripartita	...	...	1	2	3	4	—
E	C	N	S	"	cernua	..	...	1	2	3	4	5
—	C	—	—	[<i>Galinsoga parvifolia</i>]		...	...	—	—	—	—	—
E	C	N	S	Carlina	vulgaris	...	...	1	2	3	4	5
E	C	N	S	Arctium	majus	...	...	1	2	3	4	5
E	C	—	S	"	nemorosum	...	...	1	2	3	—	—
E	C	N	S	"	minus	...	...	1	2	3	4	5
E	C	N	S	"	intermedium	...	...	1	2	3	4	5
E	C	—	S	Serratula	tinctoria	...	...	1	—	—	—	5
—	—	—	S	[<i>Centaurea Jacea</i>]		...	...	1	—	—	—	—
E	C	N	S	"	nigra	...	...	1	2	3	4	5
E	—	—	S	"	" nigrescens	...	...	—	—	—	—	5
E	C	N	S	"	Cyanus	...	...	1	2	3	4	5
E	C	N	S	"	Scabiosa	...	...	1	2	3	4	5
E	C	N	S	†	" solstitialis	...	...	1	—	3	4	5
E	C	N	S	"	Calcitrapa	...	...	1	—	3	—	5
E	C	N	S	Onopordum	Acanthium	...	...	1	2	3	4	5
E	C	N	S	Carduus	nutans	...	...	1	2	3	4	5
E	C	N	S	"	crispus	...	...	1	2	3	4	5
E	—	—	S	"	" acanthoides	...	...	1	2	—	4	5
E	—	N	S	"	tenuiflorus	...	...	—	—	3	4	5
E	C	N	S	"	lanceolatus	...	...	1	2	3	4	5
E	C	N	S	"	eriphorus	..	...	1	2	—	4	5
E	C	N	S	"	arvensis	...	...	1	2	3	4	5
E	C	N	S	"	palustris	...	...	1	2	3	4	5
E	C	N	S	"	pratensis	...	...	1	—	3	4	—
E	C	N	S	"	acaulis	...	...	1	2	3	4	5
—	—	N	—	"	<i>heterophyllus</i>	...	...	—	—	—	—	—
E	—	—	—	"	<i>Gibsoni</i>	...	...	—	—	—	—	—
E	C	N	S	Silybum	marianum	...	...	1	2	3	4	5
E	C	N	S	Lapsana	communis	...	...	1	2	3	4	5
E	C	N	S	Arnoseris	pusilla	...	...	1	—	—	4	5
E	C	N	S	Cichorium	Intybus	...	...	1	2	3	4	5
—	C	N	S	Hypochaeris	glabra	...	...	1	2	3	4	5
E	C	N	S	"	radicata	...	...	1	2	3	4	5
E	C	N	S	"	maculata	...	...	1	—	—	—	—
E	C	N	S	Thrinchia	hirta	...	...	1	2	3	4	5
E	C	N	S	Leontodon	hispidus	...	...	1	2	3	4	5
E	C	N	S	"	autumnalis	...	...	1	2	3	4	5
E	C	—	S	Tragopogon	minor	...	...	1	2	3	4	5
E	—	N	S	"	pratensis	...	...	1	2	3	4	5
—	—	N	—	"	" <i>grandiflorus</i>	—	—	—	—	—
E	—	N	S	"	porrifolius	1	2	3	—	5
E	C	N	S	Picris	hieracioides	1	2	3	4	5
—	—	—	S	"	" arvalis	1	2	—	4	—

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Essex	Camb.	Norf.	Suff.				Bury	Sudbury	Lowestft	Eye	Ipswich	
E	C	N	S	Helminthia	echioides	1	2	3	4	5
E	C	N	S	Lactuca	saligna	—	—	—	—	5?
E	C	N	S	"	virosa	1	2	3	4	5
E	C	N	S	"	Scariola	1	—	—	—	5?
E	C	N	S	"	muralis	1	2	3	4	5
E	C	N	S	Taraxacum	officinale	1	2	3	4	5
—	—	N	S	"	" (b) lævigatum	...	—	—	—	4	5	
—	C	N	S	"	" (c) erythrospermum	...	1	—	—	—	—	
—	C	N	S	"	" (d) palustre	...	—	—	3	4	—	
E	C	N	S	Sonchus	oleraceus	1	2	3	4	5
E	C	N	S	"	asper	1	2	3	4	5
E	C	N	S	"	arvensis	1	2	3	4	5
—	—	—	S	"	" glabra	...	—	—	—	—	5	
E	C	N	S	"	palustris	...	—	—	3	4	5?	
—	—	—	S	[Mulgedium	tataricum]	...	—	2	—	—	—	
E	—	—	S	Crepis	taraxacifolia	...	1	—	—	4	5	
E	—	N	—	[	" setosa]	...	—	2?	—	—	—
E	C	N	S	"	foetida	...	1	—	—	—	5	
E	C	N	S	"	virens	...	1	2	3	4	5	
E	C	N	S	"	biennis	...	1	—	—	—	5	
—	—	N	—	"	paludosa	...	—	—	—	—	—	
E	C	N	S	Hieracium	Pilosella	...	1	2	3	4	5	
—	—	—	S	[	" aurantiacum]	...	1	—	—	—	—
—	C	N	S	"	murorum	...	1	—	—	4	—	
E	—	N	S	"	vulgatum	...	1	2	—	4	5	
—	—	N	S	"	" maculatum	...	—	2	—	—	—	
E	—	—	—	"	tridentatum	...	—	—	—	—	—	
E	C	N	S	"	umbellatum	...	1	—	3	4	—	
E	C	N	S	"	boreale	...	1	2	—	4	5	
—	—	—	S	[Xanthium	strumarium]	...	1	—	—	—	—	
E	C	N	S	Jasione	montana	...	1	2	3	4	5	
E	C	N	S	Campanula	glomerata	...	1	2	—	—	—	
—	C	N	S	"	latifolia	...	—	—	3	4	—	
E	C	N	S	"	Trachelium	...	1	2	3	4	5	
E	C	—	S	†	" rapunculoides	...	1	—	3	4	—	
E	C	N	S	"	rotundifolia	...	1	2	3	4	5	
E	—	N	S	‡	" Rapunculus	...	1	—	3	—	—	
—	C	N	—	"	patula ..	...	—	—	—	—	—
E	C	N	S	Specularia	hybrida	...	1	2	3	4	5	
E	—	—	—	Wahlenbergia	hederacea	...	—	—	—	—	—	
E	C	N	S	Calluna	vulgaris	...	1	—	3	4	5	
E	—	N	S	"	" (b) incana	...	—	—	3	—	—	
E	C	N	S	Erica	Tetralix	...	1	—	3	4	5	
E	C	N	S	"	cinerea	...	1	—	3	4	5	
—	—	N	—	Andromeda	polifolia	...	—	—	—	—	—	
E	—	N	—	Vaccinium	Myrtillus	...	—	—	—	—	—	
E	—	—	—	"	Vitis-idæa	...	—	—	—	—	—	
E	C	N	S	"	Oxycoccus	...	1	—	3	—	—	
—	—	N	S	Pyrola	rotundifolia	...	—	—	3	4	—	
—	—	N	—	"	minor	...	—	—	—	—	—	

Essex	Camb.	Norf.	Suff.				Bury	Sudbury	Lowestoft	Eye	Ipswich
E	C	N	S	Monotropa Hypopitys	...	...	1	2	3	4	—
E	C	N	S	Ilex Aquifolium ...	...	...	1	2	3	4	5
E	C	N	S	Ligustrum vulgare	...	...	1	2	3	4	5
E	C	N	S	Fraxinus excelsior	...	...	1	2	3	4	5
E	C	N	S	Vinca minor ...	...	...	1	2	3	4	5
E	C	N	S	[„ major] ...	...	...	1	2	3	—	5
E	C	N	S	Chlora perfoliata...	...	...	1	2	3	4	5
E	C	N	S	Erythræa pulchella	...	...	—	—	3	—	5
E	C	N	S	„ Centaureum	...	...	1	2	3	4	5
—	—	N	S	„ littoralis	...	...	1	—	3	4	—
—	—	N	—	<i>Cicendia filiformis</i> ..	...	...	—	—	—	—	—
E	C	—	S	Gentiana Amarella	...	...	1	2	—	—	5
E	—	—	—	„ „ (b) <i>germanica</i>	...	...	—	—	—	—	—
—	—	N	S	„ campestris	...	...	1	2	—	—	—
—	—	N	S	„ Pneumonanthe	...	...	—	—	3	—	—
E	C	N	S	Limnanthemum nymphæoides	...	...	1	2	3	—	—
E	C	N	S	Menyanthes trifoliata	...	...	1	2	3	4	5
E	—	—	S	[Polemonium cæruleum]	...	...	1	—	—	—	—
E	C	N	S	Convolvulus arvensis	...	...	1	2	3	4	5
E	C	N	S	„ sepium	...	...	1	2	3	4	5
E	—	N	S	„ Soldanella	...	...	—	—	3	4	5
E	C	N	S	Cuscuta europæa...	...	...	1	2	—	—	5
E	?	N	S	[„ Epilinum]	...	...	—	—	—	4	—
E	C	N	S	„ Epithymus	...	...	1	2	3	4	—
E	C	N	S	† „ Trifolii ...	...	...	1	2	3	4	5
E	—	—	—	[„ <i>hassiacæ</i>] ..	...	...	—	—	—	—	—
E	C	N	S	Asperugo procumbens	...	...	1	2	—	—	—
—	—	N	S	[Echinosperrum Lappula]	...	...	—	—	3	—	—
E	C	N	S	Cynoglossum officinale	...	...	1	2	3	4	5
E	—	N	—	„ <i>montanum</i>	...	...	—	—	—	—	—
E	C	N	S	*Borago officinalis	...	...	1	2	3	4	5
—	—	—	S	†Anchusa officinalis	...	...	—	—	—	—	5
E	C	N	S	† „ sempervirens	...	...	1	2	3	4	5
E	C	N	S	Lycopsis arvensis	...	...	1	2	3	4	5
E	C	N	S	Symphytum officinale	...	...	1	2	3	4	5
—	C	—	S	„ „ <i>patens</i>	...	...	1	2	3	—	5
—	—	—	S	[„ orientale]	...	...	—	—	—	—	5
—	C	—	S	[„ tauricum]	...	...	1	2	—	—	—
E	?	N	—	„ <i>tuberosum</i>	...	...	—	—	—	—	—
E	—	—	—	„ <i>aspermum</i>	...	...	—	—	—	—	—
E	C	N	S	Echium vulgare	...	...	1	2	3	4	5
—	—	—	S	Pulmonaria officinalis	...	...	—	—	—	4	—
E	C	N	S	Lithospermum officinale	...	...	1	2	3	4	5
E	C	N	S	„ arvense	...	...	1	2	3	4	5
E	C	N	S	Myosotis palustris	...	...	1	2	3	4	5
—	—	—	S	„ „ (b) <i>strigulosa</i>	...	...	1	—	3	—	—
—	—	—	S?	„ repens	...	...	—	—	3?	—	—
E	C	N	S	„ caespitosa	...	...	1	2	3	4	5
E	?	N	S	„ silvatica	...	...	1	2	3	4	5
E	C	N	S	„ arvensis	...	...	1	2	3	4	5

Essex	Camb.	Norf.	Suff.			Bury	Sudbury	Lowestoft	Eye	Ipswich
E	C	—	S	Myosotis arvensis (b)	umbrosa	...	1	2	—	—
E	C	N	S	"	collina	...	1	2	3	4
—	—	N	S	"	" (b) Mittenii	...	1	—	—	—
E	C	N	S	"	versicolor	...	1	2	3	4
E	C	N	S	Solanum	nigrum	...	1	2	3	4
E	C	N	S	"	Dulcamara	...	1	2	3	4
E	—	—	—	"	" tomentosum	...	—	—	—	—
E	C	N	S	Atropa	Belladonna	...	1	—	—	4
E	C	N	S	Hyoscyamus	niger	...	1	2	3	4
—	—	N	S	[Nicandra	physaloides]	...	—	2	—	—
E	—	N	S	[Lycium	barbarum]	...	1	2	3	4
E	C	—	S	[Datura	Stramonium]	...	1	2	3	4
E	C	N	S	Orobanche	Rapum	...	1	2	3	4
—	—	—	S	"	caryophyllacea	...	1	2	—	—
E	C	N	S	"	elatior	...	1	—	—	5
—	C	—	S	"	Picridis	...	1	—	—	—
E	C	N	S	"	minor	...	1	2	3	4
—	—	N	S	"	cærulea	...	—	2	—	5
—	C?	N	S	[	" ramosa]	...	—	—	3	4
E	—	—	—	La'hraea	squamaria	...	—	—	—	—
E	C	N	S	Verbascum	Thapsus	...	1	2	3	4
—	—	N	S	"	Lychnitis	...	1	—	3	4
—	—	N	S	"	pulverulentum...	...	1	—	3	4
E	C	N	S	"	nigrum	...	1	2	3	4
E	—	N	S	"	Blattaria	...	1	—	3	4
E	—	N	S	"	virgatum	...	1	2	3	4
—	—	—	S	"	Thapso-Lychnitis	...	1?	—	—	—
—	—	—	S	"	Thapso-nigrum	...	—	—	—	5
—	—	N	S	"	nigro-pulverulentum	...	—	—	—	—
—	—	—	S	[	" phœniceum]	...	—	2?	—	—
E	—	N	S	Digitalis	purpurea	...	1	2	3	4
E	C	N	S	*Antirrhinum	majus	...	1	2	3	4
E	C	N	S	"	Orontium	...	1	2	3	4
E	C	N	S	Linaria	Cymbalaria	...	1	2	3	4
E	C	N	S	"	Elatine	...	1	2	3	4
E	C	N	S	"	spuria	...	1	2	3	4
E	C	N	S	"	minor	...	1	2	3	4
E	—	N	—	*	" purpurea	...	—	—	—	—
E	—	N	—	"	repens	...	—	—	—	—
E	C	N	S	"	vulgaris	...	1	2	3	4
E	—	—	—	"	" Peloria	...	—	—	—	—
E	C	N	S	Scrophularia	nodosa	...	1	2	3	4
—	—	—	S	"	umbrosa	...	1	—	—	—
E	C	N	S	"	aquatica	...	1	2	3	4
E	—	N	S	†	" vernalis	...	1	—	—	—
E	C	N	S	Limosella	aquatica	...	1	—	3	—
E	C	N	S	Melampyrum	cristatum	...	1	2	—	4
E	—	N	S	[	" arvense]	...	—	2	—	—
E	C	N	S	"	pratense	...	1	2	3	4
—	—	—	S	"	" latifolium	...	1	—	—	—

Essex	Camb.	Norf.	Suff.			Bury	Sudbury	Lowestft	Eye	Ipswich
—	—	—	S	Melampyrum	silvaticum ...	—	2	—	—	—
E	C	N	S	Pedicularis	palustris ...	1	2	3	4	5
E	C	N	S	"	silvatica ...	1	2	3	4	5
E	C	N	S	Rhinanthus	Crista-galli ...	1	2	3	4	5
E	C	N	S	Euphrasia	officinalis ...	1	2	3	4	5
E	—	—	S	"	" nemorosa ...	—	4	—	—	—
E	C	N	S	Odontites	rubra (a) verna... ..	1	2	3	—	—
—	—	—	S	"	" (b) serotina ...	1	2	3	4	—
—	C	—	—	"	" rotundata... ..	—	—	—	—	—
E	C	N	S	Veronica	scutellata ...	1	2	3	4	5
—	—	—	S	"	" pubescens ...	1	—	—	—	—
E	C	N	S	"	Anagallis ...	1	2	3	4	5
E	C	N	S	"	Beccabunga ...	1	2	3	4	5
E	C	N	S	"	Chamædrys ...	1	2	3	4	5
E	C	N	S	"	montana ...	1	2	3	4	5
E	C	N	S	"	officinalis ...	1	2	3	4	5
—	C	N	S	"	spicata... ..	1	—	—	—	—
E	C	N	S	"	serpyllifolia ...	1	2	3	4	5
E	C	N	S	"	arvensis ...	1	2	3	4	5
—	—	N	S	"	verna... ..	1	—	—	4	—
E?	—	N	S	"	triphyllus ...	1	2	3	4	5
E	C	N	S	"	agrestis ...	1	2	3	4	5
E	C	N	S	"	polita	1	2	3	4	5
—	C	—	S	"	" grandiflora ...	1	2	—	—	—
E	C	N	S	"	Buxbaumii ...	1	2	3	4	5
E	C	N	S	"	hederifolia ...	1	2	3	4	5
E	—	N	S	†Mentha	viridis ...	1	—	—	4	—
E	C	N	S	"	rotundifolia ...	—	—	3	4	—
—	—	N	S	"	alopecuroides ...	—	2	—	—	—
E	C	N	S	"	silvestris ...	1	2	3	4	5
—	—	N	—	"	" (b) nemorosa ...	—	—	—	—	—
—	—	N	S	"	" (c) mollissima ...	—	2	—	—	5
E	C	N	S	"	piperita ...	1	2	—	—	5
—	—	N	—	"	" (b) vulgaris ...	—	—	—	—	—
E	C	N	S	"	aquatica ...	1	2	3	4	5
—	—	N	S	"	" subglabra... ..	1	—	3	4	—
—	—	N	S	"	" citrata... ..	1	—	—	—	—
—	—	—	S	"	pubescens ...	—	—	—	4	—
—	—	—	S	"	hircina ...	1	—	—	—	—
E	C	N	S	"	sativa (a) rivalis... ..	1	2	3	4	5
—	—	N	S	"	" (b) paludosa ...	1	—	—	—	—
—	—	—	S	"	" (c) subglabra ...	1	—	—	—	—
E	—	N	S	"	rubra ...	1	—	—	4	—
—	—	N	—	"	gracilis & cardiaca ...	—	—	—	—	—
E	C	N	—	"	pratensis ...	—	—	—	—	—
E	—	—	S	"	gentilis ...	1	—	—	—	—
E	C	N	S	"	arvensis ...	1	2	3	4	5
—	—	N	S	"	" (b) Nummularia ...	1	—	—	4	—
E	—	—	S	"	" (c) agrestis ...	—	—	—	4	5
—	—	N	S	"	" (d) præcox ...	1	2	—	—	—

Essex	Camb.	Norf.	Suff.			Bury	Sudbury	Lowestft	Eye	Ipswich
—	—	N	S	<i>Mentha arvensis</i> (e)	Allionii	...	1	—	—	—
E	C	N	S	"	<i>Pulegium</i>	...	1	2	3	4 5
—	—	N	—	"	(b) <i>erecta</i>	...	—	—	—	—
E	C	N	S	<i>Lycopus europæus</i>	...	...	1	2	3	4 5
E	C	N	S	<i>Salvia Verbenaca</i>	...	...	1	2	3	4 5
—	—	—	S	[" <i>verticillata</i> ]	...	...	1	2	—	—
E	C	N	S	<i>Origanum vulgare</i>	...	...	1	2	—	4 5
—	—	N	—	"	<i>prismaticum</i>	...	—	—	—	—
E	C	N	S	<i>Thymus Serpyllum</i>	...	...	1	—	3	— 5?
E	C	—	S	"	<i>Chamædrys</i>	...	1	2	3	4 5
E	C	N	S	<i>Calamintha Nepeta</i>	...	...	1	—	—	—
E	C	N	S	"	<i>officinalis</i>	...	1	2	3	4 5
E	C	N	S	"	<i>Acinos</i>	...	1	2	3	4 5
E	C	N	S	"	<i>Clinopodium</i>	...	1	2	3	4 5
E	C?	—	—	<i>Melissa officinalis</i>	...	...	—	—	—	—
E	C	N	S	<i>Scutellaria galericulata</i>	...	...	1	2	3	4 5
E	—	N	S	"	<i>minor</i>	...	1	—	—	4 —
E	C	N	S	<i>Prunella vulgaris</i>	...	...	1	2	3	4 5
E	C	N	S	<i>Nepeta Cataria</i>	...	...	1	2	3	4 5
E	C	N	S	"	<i>Glechoma</i>	...	1	2	3	4 5
E	C	N	S	<i>Lamium amplexicaule</i>	...	...	1	2	3	4 5
E	C	N	S	"	<i>incisum</i>	...	1	2	3	4 5
E	C	N	S	"	<i>purpureum</i>	...	1	2	3	4 5
—	—	—	S	"	<i>decipiens</i>	...	1	2	—	4 —
E	—	—	S	[" <i>maculatum</i> ]	...	...	1	2	—	—
—	—	—	S	[" " <i>lævigatum</i> ]	...	...	1	—	—	—
E	C	N	S	"	<i>album</i>	...	1	2	3	4 5
E	C	N	S	"	<i>Galeobdolon</i>	...	1	2	3	4 5
—	C	N	S	<i>Leonurus Cardiaca</i>	...	...	1	—	3	—
E	—	—	S	<i>Galeopsis dubia</i>	...	...	—	—	3	—
E	C	N	S	"	<i>Ladanium</i>	...	1	2	3	4 5
—	—	—	S	"	<i>canescens</i>	...	—	2	—	5
E	C	N	S	"	<i>Tetrahit</i>	...	1	2	3	4 5
—	—	—	S	"	(b) <i>bifida</i>	...	1	2	—	4 —
E	C	N	S	"	<i>versicolor</i>	...	1	2	3	4 —
E	C	N	S	<i>Stachys Betonica</i>	...	...	1	2	3	4 5
—	—	N	—	[" <i>germanica</i> ]	...	...	—	—	—	—
E	C	N	S	"	<i>silvatica</i>	...	1	2	3	4 5
E	C	N	S	"	<i>palustris</i>	...	1	2	3	4 5
—	—	—	S	"	(b) <i>ambigua</i>	...	1	—	3	—
E	C	N	S	"	<i>arvensis</i>	...	1	2	3	4 5
—	—	N	—	[" <i>annua</i> ]	...	...	—	—	—	—
E	C	N	S	<i>Ballota foetida</i>	...	...	1	2	3	4 5
E	C	N	S	<i>Marrubium vulgare</i>	...	...	1	2	—	4 5
E	C	N	S	<i>Teucrium Scorodonia</i>	...	...	1	2	3	4 5
—	C	N	S	"	<i>Scordium</i>	...	1?	—	—	—
—	—	N	—	"	<i>Chamædrys</i>	...	—	—	—	—
E	C	N	S	<i>Ajuga reptans</i>	...	...	1	2	3	4 5
E	C	—	—	"	<i>Chamæpitys</i>	...	—	—	—	—
E	C	N	S	<i>Verbena officinalis</i>	...	...	1	2	3	4 5

Essex.	Camb.	Norf.	Suff.				Bury	Sudbury	Lowestoft	Eye	Ipswich
—	C	N	S	<i>Pinguicula vulgaris</i>	...	...	1	—	—	4	—
E	C	N	S	<i>Utricularia vulgaris</i>	...	...	1	—	3	4	—
—	—	—	S	„ <i>neglecta</i>	...	...	1	—	3	—	—
—	C	N	S	„ <i>minor</i>	...	...	1	2	3	4	—
E	C	N	S	<i>Hottonia palustris</i>	...	...	1	2	3	4	5
E	C	N	S	<i>Primula vulgaris</i>...	...	...	1	2	3	4	5
E	C	N	S	„ „ <i>variabilis</i>	...	...	1	2	3	4	5
E	C	N	S	„ <i>veris</i> ...	...	...	1	2	3	4	5
E	C	N	S	„ <i>elatior</i> ...	...	...	1	2	3	4	5
—	—	—	S	<i>Cyclamen hederifolium</i>	...	...	—	—	3	4	—
E	C	N	S	<i>Lysimachia vulgaris</i>	...	...	1	2	3	4	5
—	—	N?	—	[„ <i>punctata</i>]	...	...	—	—	—	—	—
E	C	N	S	„ <i>Nummularia</i>	...	...	1	2	3	4	5
E	C	N	S	„ <i>nemorum</i>	...	...	1	2	3	4	5
E	C	N	S	<i>Glaux maritima</i> ...	...	...	—	—	3	4	5
E	C	N	S	<i>Anagallis arvensis</i>	...	...	1	2	3	4	5
—	—	—	S	„ „ <i>carnea</i>	...	...	1	—	—	—	5
E	C	N	S	„ <i>cærulea</i>	...	...	1	2	3	4	5
E	C	N	S	„ <i>tenella</i>...	...	...	1	2	3	4	5
E	C	N	S	<i>Centunculus minimus</i>	..	...	1	—	3	—	—
E	C	N	S	<i>Samolus Valerandi</i>	...	...	1	—	3	4	5
E	C	N	S	<i>Statice Limonium</i>	...	...	—	—	3	4	5
—	—	—	S	„ „ <i>pyramidalis</i>	...	...	—	—	3	4	5
E	—	N	S	„ <i>bahusiensis</i>	...	..	—	—	—	4	5
E	—	N	—	„ <i>occidentalis</i>	...	...	—	—	—	—	—
E	C	N	—	„ <i>caspia</i> ...	...	...	—	—	—	—	—
E	C	N	S	<i>Armeria maritima</i>	...	...	—	—	3	4	5
E	C	N	S	<i>Plantago Coronopus</i>	...	...	1	2	3	4	5
E	C	N	S	„ <i>maritima</i>	...	...	—	—	3	4	5
E	C	N	S	„ <i>lanceolata</i>	...	...	1	2	3	4	5
E	C	N	S	„ „ <i>Timbali</i>	...	...	1	—	—	—	5
E	C	N	S	„ <i>media</i> ...	...	...	1	2	3	4	5
E	C	N	S	„ <i>major</i> ...	...	...	1	2	3	4	5
E	C	N	S	<i>Littorella lacustris</i>	...	...	1	—	3	—	—
E	—	—	S	[<i>Amaranthus Blitum</i>]	...	...	1	2	—	—	—
—	—	—	S	[<i>Blitum virgatum</i>]	...	...	1	—	—	—	—
E	—	N	S	<i>Suaeda fruticosa</i>	...	...	—	—	3	4	5
E	C	N	S	„ <i>maritima</i>	...	...	—	—	3	4	5
E	—	N	S	<i>Salsola Kali</i>	...	...	—	—	3	4	5
E	C	N	S	<i>Chenopodium Vulvaria</i>	...	...	—	—	3	—	5
E	C	N	S	„ <i>polyspermum</i>	...	...	1	2	3	4	5
E	—	—	S	„ „ <i>acutifolium</i>	...	...	1	2	—	4	5
E	C	N	S	„ <i>urbicum</i>	...	...	1	—	3	4	5
—	—	—	S	„ „ <i>(b) intermedium</i>	...	...	1	—	—	—	—
E	C	N	S	„ <i>album</i>	...	...	1	2	3	4	5
—	C	—	S	„ „ <i>(b) viride</i>	...	...	1	2	3	4	5
—	—	—	S	„ „ <i>(c) paganum</i>...	...	...	1	—	—	—	—
E	C	N	S	„ <i>ficifolium</i>...	...	...	1	—	3	—	5
E	C	N	S	„ <i>murale</i>	...	...	—	—	3	—	5
E	C	N	S	„ <i>hybridum</i> ...	...	...	1	2	3	4	5

Essex.	Camb.	Norf.	Suff.		Bury	Sudbury	Lowestoft	Eye	Ipswich
E	C	N	S	<i>Chenopodium rubrum</i> ...	1	2	3	—	5
—	—	—	S	„ „ <i>pseudo-botryodes</i> ...	1	—	—	—	—
—	—	N	S	„ <i>botryodes</i> ...	—	—	3	—	—
E	—	N	—	„ <i>glaucum</i> ...	—	—	—	—	—
E	C	N	S	„ <i>Bonus-Henricus</i> ...	1	2	3	4	5
E	C	N	S	<i>Beta maritima</i> ...	—	—	3	4	5
E	C	N	S	<i>Salicornia herbacea</i> ...	—	—	3	4	5
E	—	N	S	„ „ <i>(b) procumbens</i> ...	—	—	3	4	5
E	—	N	S	„ <i>radicans</i> ...	—	—	—	—	5
E	C	N	S	<i>Atriplex littoralis</i> ...	—	—	3	—	5
E	—	—	S	„ „ <i>(b) marina</i> ...	—	—	3	—	5
E	C	N	S	„ <i>angustifolia</i> ...	1	2	3	4	5
E	C	N	S	„ <i>erecta</i> ...	1	2	3	4	5
E	C	N	S	„ <i>deltoidea</i> ...	1	—	3	4	5
E	—	N	S	„ „ <i>triangularis</i> ...	1	—	3	—	5
E	C	—	S	„ <i>hastata</i> ...	1	2	3	4	5
E	C	N	S	„ <i>Babingtonii</i> ...	—	—	3	4	5
E	—	N	S	„ <i>farinosa</i> ...	—	—	3	4	5
E	C	N	S	<i>Obione pedunculata</i> ...	—	—	3	4	5
E	C	N	S	„ <i>portulacoides</i> ...	—	—	3	4	5
E	C	N	S	<i>Rumex maritimus</i> ...	1	2	3	4	5
E	C	N	S	„ <i>palustris</i> ...	1	—	3	—	—
E	C	N	S	„ <i>conglomeratus</i> ...	1	2	3	4	5
E	C	N	S	„ <i>sanguineus</i> ...	1	2	3	4	5
E	C	N	S	„ „ <i>(b) viridis</i> ...	1	2	3	4	5
E	C	N	S	„ <i>pulcher</i> ...	1	2	3	4	5
E	C	N	S	„ <i>obtusifolius</i> ...	1	2	3	4	5
—	—	N	—	„ „ <i>Friesii</i> ...	—	—	—	—	—
E	C	N	S	„ <i>acutus</i> ...	1	2?	—	—	—
E	C	N	S	„ <i>crispus</i> ...	1	2	3	4	5
—	—	—	S	„ „ <i>trigranulatus</i> ...	—	—	3	—	—
—	—	—	S	„ „ <i>subcordatus</i> ...	—	—	3	—	—
E	C	N	S	„ <i>Hydrolapathum</i> ...	1	2	3	4	5
E	C	N	S	„ <i>Acetosa</i> ...	1	2	3	4	5
E	C	N	S	„ <i>Acetosella</i> ...	1	2	3	4	5
—	—	—	S	„ „ <i>angustifolius</i> ...	1	—	—	—	—
E	C	N	S	<i>Polygonum Bistorta</i> ...	1	2	3	4	5
E	C	N	S	„ <i>amphibium</i> ...	1	2	3	4	5
E	C	N	S	„ <i>lapathifolium</i> ...	1	2	3	4	5
E	—	—	S	„ <i>maculatum</i> ...	1	2	—	—	—
E	C	N	S	„ <i>Persicaria</i> ...	1	2	3	4	5
—	—	—	S	„ „ <i>biforme</i> ...	1	—	—	—	—
E	C	N	S	„ <i>mite</i> ...	1	—	3	—	—
E	C	N	S	„ <i>Hydropiper</i> ...	1	2	3	4	5
E	C	N	S	„ <i>minus</i> ...	1	—	3	—	—
E	C	N	S	„ <i>aviculare, (a) agrestinum</i> ...	1	2	3	4	5
—	—	—	S	„ „ <i>(b) vulgatum</i> ...	1	—	—	—	—
—	—	N	S	„ „ <i>(c) arenastrum</i> ...	1	—	—	—	—
—	—	—	S	„ „ <i>(d) microspermum</i> ...	1	2	—	—	—
—	—	—	S	„ „ <i>(e) rurivagum</i> ...	1	2	—	—	—

Essex	Camb.	Norf.	Suff.		Bury	Sudbury	Lowestft	Eye	Ipswich
—	—	N	S	<i>Polygonum aviculare, (f) littorale</i> ...	—	—	—	—	5
E	—	N	S	„ <i>Raii</i> ...	—	—	—	—	5
E	C	N	S	„ <i>Convolvulus</i> ...	1	2	3	4	5
—	—	—	S	„ „ <i>pseudo-dumetorum</i> ...	1	—	—	—	—
E	C	N	S	[<i>Fagopyrum esculentum</i>] ...	1	—	—	—	5
E	—	N	S	<i>Hippophae rhamnoides</i> ...	—	—	—	4	5
E	C	N	S	<i>Daphne Mezereum</i> ...	1	—	3	4	5?
E	C	N	S	„ <i>Laureola</i> ...	1	2	3	4	5
E	C	N	S	<i>Thesium humifusum</i> ...	1	—	—	—	—
E?	C	N	S	[<i>Aristolochia Clematitis</i>] ...	1	—	—	4	—
—	—	—	S	<i>Asarum europæum</i> ...	1	—	—	4	—
E	C	N	S	<i>Euphorbia Helioscopia</i> ...	1	2	3	4	5
E	C	—	S	„ <i>platyphyllos</i> ...	1	—	—	—	—
E	C	N	S	„ <i>amygdaloides</i> ...	1	2	3	4	5
E	—	—	S	„ <i>Paralias</i> ...	—	—	3	4	5
E	—	—	S	„ <i>Cyparissias</i> ...	1	—	—	—	—
E?	—	N	—	„ <i>Esula</i> ...	—	—	—	—	—
E	C	N	S	„ <i>Peplus</i> ...	1	2	3	4	5
E	C	N	S	„ <i>exigua</i> ...	1	2	3	4	5
E	—	N	S	„ <i>Lathyris</i> ...	1	2	—	4	5
E	C	N	S	<i>Mercurialis perennis</i> ...	1	2	3	4	5
E	C	N	S	„ <i>annua</i> ...	1	2	3	4	5
—	—	—	S	„ „ <i>(b) ambigua</i> ...	—	—	—	—	5
E	C	N	S	<i>Ceratophyllum demersum</i> ...	1	2	3	4	—
E	C?	N	S	„ <i>submersum</i> ...	1	2	3	4	—
E	C	N	S	<i>Callitriche verna</i> ...	1	2	3	4	5
—	—	N	S	„ <i>obtusangula</i> ...	1	—	3	—	—
—	—	—	S	„ <i>stagnalis</i> ...	1	—	3	4	—
E	C	N	S	„ „ <i>(b) platycarpa</i> ...	1	—	3	4	—
E	—	N	S	„ <i>hamulata</i> ...	1	—	3	4	—
E	—	—	S	„ „ <i>(b) pedunculata</i> ...	1	—	—	—	5
E	C	N	S	<i>Parietaria diffusa</i> ...	1	2	3	4	5
E	C	N	S	<i>Urtica pilulifera</i> ...	—	2	3	4	5
E	—	N	—	„ „ <i>(b) Dodartii</i> ...	—	—	—	—	—
E	C	N	S	„ <i>urens</i> ...	1	2	3	4	5
E	C	N	S	„ <i>dioica</i> ...	1	2	3	4	5
—	—	—	S	[<i>Cannabis sativa</i>] ...	—	2	3	—	—
E	C	N	S	<i>Humulus Lupulus</i> ...	1	2	3	4	5
E	C	N	S	<i>Ulmus campestris</i> ...	1	2	3	4	5
E	C	—	S	„ „ <i>(b) glabra</i> ...	1	2	3	4	5
E	—	—	S	„ „ <i>(c) stricta</i> ...	—	—	—	4	5
E	C	N	S	„ <i>montana</i> ...	1	2	3	4	5
—	—	—	S	<i>Salix pentandra</i> ...	—	—	3	4	—
E	—	N	S	„ <i>fragilis (a) decipiens</i> ...	1	—	3	4	—
E	C	N	S	„ „ <i>(b) fragilis</i> ...	1	2	3	4	—
E	C	N	S	„ „ <i>(c) Russelliana</i> ...	1	—	—	—	—
E	C	N	S	„ <i>alba</i> ...	1	2	3	4	5
—	—	—	S	„ „ <i>(b) cærulea</i> ...	1	—	—	—	—
E	C	N	S	„ „ <i>(c) vitellina</i> ...	1	—	3	4	—
E	C	—	S *	„ <i>undulata</i> ...	1	—	3	—	—

Essex	Camb.	Norf.	Suff.			Bury	Sudbury	Lowestft	Eye	Ipswich
E	C	N	S	Salix triandra	...	1	2	3	4	—
E	C	—	S	" "	(b) Hoffmanniana ...	1	2	—	—	—
E	C	N	S	" "	(c) amygdalina ...	1	—	3	—	—
E	C	N	S	"	purpurea ...	1	2	3	4	—
—	—	—	S	" "	(b) Woolgariana ...	1	—	3	—	—
—	—	—	S	" "	(c) ramulosa ...	1	2	—	—	—
E	—	N	S	" "	(d) Lambertiana ...	1	—	3	—	—
E	C	N	S	" "	(e) Helix ...	1	—	—	—	—
E	C	N	S	"	rubra ...	1	—	—	—	—
E	C	N	S	" "	(b) Forbyana ...	1	—	3	—	—
E	C	N	S	"	viminalis ...	1	2	3	—	5.
E	—	—	S	" "	(b) intricata ...	1	—	—	—	—
—	—	—	S	" "	(c) stipularis (Leeffe) ...	1	—	—	—	—
E	—	N	S	"	stipularis, Sm. ...	1	—	—	—	—
E	—	—	S	"	Smithiana ...	1	—	3	—	—
E	—	—	—	" "	(b) rugosa ...	—	—	—	—	—
E	—	—	—	" "	(c) ferruginca ...	—	—	—	—	—
E	C	N	S	"	acuminata ...	1	—	3	—	—
E	C	N	S	"	cinerea ...	1	2	3	4	5.
E	C	N	S	" "	(b) aquatica ...	1	2	3	4	—
E	C	N	S	" "	(c) oleifolia ...	1	2	—	4	—
E	C	N	S	"	aurita ...	1	2	3	—	—
E	C	N	S	"	Caprea ...	1	2	3	4	5.
—	—	N	—	"	nigricans ...	—	—	—	—	—
—	—	N	—	" "	cotonifolia ...	—	—	—	—	—
—	—	N	—	" "	hirta ...	—	—	—	—	—
—	—	N	—	"	phylicifolia, Croweana ...	—	—	—	—	—
E	C	N	S	Salix repens	...	1	—	3	—	—
E	—	N	S	" "	(b) fusca ...	1	—	—	—	—
E	—	—	—	" "	(c) prostrata ...	—	—	—	—	—
E	—	N	S	" "	(d) ascendens ...	1	—	—	—	—
E	—	—	S	" "	(e) incubacea ...	1	—	3	—	—
E	—	N	S	" "	(f) argentea ...	1	—	3	—	—
E	—	—	S	"	ambigua ...	—	—	3	—	—
E	—	—	S	" "	(c) spathulata ...	—	—	3	—	—
E	C	N	S	Populus alba	...	1	2	3	4	5
E	C	N	S	"	canescens ...	1	2	3	4	—
E	C	N	S	"	tremula, villosa ...	1	2	3	4	5
E	C	N	S	" "	glabra ...	1	—	3	4	—
E	C	N	S	"	nigra ...	1	2	3	4	5.
?	C	N	S	Myrica Gale	...	1	—	3	—	—
E	C	N	S	Betula verrucosa	...	1	2	3	4	5
E	C	—	S	"	glutinosa ...	1	—	—	4	—
—	—	—	S	" "	(b) pubescens ...	—	—	—	4	—
E	C	N	S	Alnus glutinosa	...	1	2	3	4	5
E	C	N	S	Fagus silvatica	...	1	2	3	4	5
E	—	N	S	[Castanea vulgaris]	...	1	2	3	4	5
E	C	N	S	Quercus Robur, pedunculata	...	1	2	3	4	5
E	—	N	S	" "	sessiliflora... ..	1	—	—	—	5
E	C	N	S	Corylus Avellana	...	1	2	3	4	5.

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Essex	Camb.	Norf.	Suff.				Bury	Sudbury	Lowestft	Eye	Ipswich	
E	C	N	S	Carpinus	Betulus	1	2	3	4	5
E	C	N	S	Taxus	baccata	...	...	1	2	3	4	5
E	C	N	S	Juniperus	communis	...	...	1	—	—	—	—
E	C	N	S	Pinus	silvestris	...	...	1	2	3	4	5
E	C	N	S	Paris	quadrifolia	...	...	1	2	3	4	5
E	C	N	S	Tamus	communis	...	...	1	2	3	4	5
E	C	N	S	Hydrocharis	Morsus-ranæ	...	...	1	2	3	4	5
E	C	N	S	Stratiotes	aloides	...	...	1	—	3	4	5
E	C	N	S	Anacharis	Alsinastrum	...	...	1	2	3	4	5
E	C	N	S	Orchis	Morio	...	...	1	2	3	4	5
E	C	N	S	„	mascula	...	...	1	2	3	4	5
E	C	N	S	„	ustulata	...	...	1	—	—	—	—
E	C	N	S	„	maculata	...	...	1	2	3	4	5
E	C	N	S	„	latifolia	...	...	1	2	3	4	5
E	C	N	S	„	incarnata	...	...	1	2	3	4	—
—	—	—	S	„	„ (b) angustifolia	...	...	1	—	—	4	—
E	C	N	S	„	pyramidalis	...	...	1	2	3	4	5
—	—	—	S	„	hircina	...	...	—	—	—	4	—
E	C	N	S	Gymadenia	Conopsea	...	...	1	2	3	4	5
E	C	N	S	Aceras	anthropophora	...	...	1	2	3	4	5
E	C	N	S	Habenaria	viridis	...	...	1	2	3	4	5
E	—	N	S	„	bifolia	...	...	1	2	3	4	5
E	C	N	S	„	chlorantha	...	...	1	2	3	4	—
E	C	N	S	Ophrys	apifera	...	...	1	2	3	4	5
—	—	—	S?	„	arachnites	...	...	1?	—	—	—	—
E	C	—	S	„	aranifera	...	...	1	2	—	—	—
E	C	N	S	„	muscifera...	...	...	1	2	3	4	5
E	C	N	S	Herminium	Monorchis	...	...	1	—	—	—	—
E	C	N	S	Spiranthes	autumnalis	...	...	1	2	3	4	—
E	C	N	S	Listera	ovata	...	...	1	2	3	4	5
E	C	N	S	Neottia	Nidus-avis	...	...	1	2	3	4	5
E	—	N	S	Epipactis	latifolia	...	...	1	2	3	4	—
E	C	—	—	„	media	...	...	—	—	—	—	—
—	—	N	—	„	ovalis	...	...	—	—	—	—	—
E	C	N	S	„	palustris	...	...	1	—	3	4	—
E	C	—	—	Cephalanthera	grandifolia	...	...	—	—	—	—	—
—	—	N?	S?	„	ensifolia	...	...	1?	—	—	—	—
—	C	N	S	Malaxis	paludosa...	...	...	—	—	3	4	—
—	C	N	S	Sturmia	Loeselii	...	...	1	—	—	4	—
E	C	N	S	Iris	Pseudacorus	...	...	1	2	3	4	5
—	—	—	S	„	„ (a) Pseudacorus	...	...	1	—	—	—	—
—	—	—	S	„	„ (b) acoriformis	...	...	1	—	—	4	5
—	—	—	S	„	„ (c) Bastardi	...	...	1	2	—	—	—
E	C	N	S	„	foetidissima	...	...	1	2	3	4	5
—	—	N	S	Crocus	vernus	...	...	1	—	3	—	5
E	—	—	—	[	„ sativus]	...	...	—	—	—	—	—
—	—	—	S	[	„ argenteus]	...	...	1	—	—	—	—
—	—	—	S	[	„ aureus]	...	...	1	—	—	—	—
E	—	—	—	[	Gladiolus communis]	...	...	—	—	—	—	—
E	—	—	S	†	Narcissus biflorus	...	...	1	2	3	—	5

Essex	Camb.	Norf.	Suff.				Bury	Sudbury	Lowestft	Eye	Ipswich
—	—	—	S	[Narcissus poeticus]	...	...	1	—	3	—	5
—	—	—	S	[„ incomparabilis ]	...	...	1	—	—	—	—
E	C	N	S	„ Pseudo narcissus	...	...	1	2	3	4	5
E	—	—	S	Leucojum aestivum	...	...	—	—	—	—	5
E	—	N	S	Galanthus nivalis	...	...	1	—	3	4	5
E	C	N	S	Alisma Plantago	...	...	1	2	3	4	5
E	C	—	S	„ „ (b) lanceolatum	...	...	1	2	3	—	—
E	C	N	S	„ ranunculoides	...	...	1	—	3	4	—
—	—	N	—	„ „ repens	...	...	—	—	—	—	—
E	—	—	S	Actinocarpus Damasonium	...	...	—	—	—	4	—
E	C	N	S	Sagittaria sagittifolia	...	..	1	2	3	4	5
E	C	N	S	Butomus umbellatus	...	...	1	2	3	4	5
E	C	N	S	Triglochin maritimum	...	...	—	—	3	4	5
E	C	N	S	„ palustre	...	...	1	2	3	4	5
E	C	N	S	Asparagus officinalis, (b) campestris	...	...	—	2	3	4	5
E	C	N	S	Convallaria majalis	...	...	1	—	3	—	5
—	—	N	—	Polygonatum officinale	...	...	—	—	—	—	—
E	—	N	S	„ multiflorum	...	...	—	—	3	4	—
E	C	N	S	Ruscus aculeatus	...	...	1	2	3	4	5
E	—	N	S	Tulipa silvestris	...	...	1	—	—	4	5
E	C	N	S	Fritillaria Meleagris	...	...	1	—	3	4	5
E	—	N	S	[Lilium Martagon]	...	...	—	—	3	—	—
E	C	N	S	Ornithogalum umbellatum	...	...	1	2	3	4	5
—	C	N	S	† „ nutans	...	...	1	2	3	4	5
—	C	N	—	[„ pyrenaicum]	...	...	—	—	—	—	—
—	—	N	S	Gagea lutea	...	...	—	—	3	4	5
E	C	N	S	Allium vineale	...	...	1	2	—	4	5
E	C	N	S	„ oleraceum	...	...	1	2	—	—	—
E	C	N	S	„ ursinum	...	...	1	2	3	4	5
—	—	—	S	[„ ambiguum]	...	...	—	—	—	4	—
E	C	N	S	Endymion nutans	...	...	1	2	3	4	5
E	C	N	S	Muscari racemosum	...	...	1	—	—	4?	—
E	C	N	S	Colchicum autumnale	...	...	1	2	3	4	5
—	C	N	—	Nartheicum ossifragum	...	...	—	—	—	—	—
E	—	N	S	Juncus maritimus	...	...	—	—	3	4	5
?	—	N	?	„ acutus	...	...	—	—	—	—	?
E	C	N	S	„ effusus	...	...	1	2	3	4	5
E	C	N	S	„ conglomeratus	...	...	1	2	3	4	5
E	C	N	S	„ glaucus ...	...	...	1	2	3	4	5
E	—	N	S	„ diffusus ...	...	...	1	2	3	—	5
E	C	N	S	„ obtusiflorus	...	...	1	2	3	4	5
E	C	N	S	„ acutiflorus	...	...	1	2	3	4	5
E	C	N	S	„ lamprocarpus	...	...	1	2	3	4	5
—	—	N	—	„ nigrifellus, D. Don...	...	...	—	—	—	—	—
E	C	N	S	„ supinus ...	...	...	1	—	3	4	—
—	—	—	S	„ „ fluitans	...	...	1	—	3	—	—
E	C	N	S	„ squarrosus	...	...	1	—	3	4	5
E	C	N	S	„ compressus	...	...	1	2	—	—	—
E	C	N	S	„ Gerardi ...	...	...	—	—	3	4	5
E	C	N	S	„ bufenius ...	...	...	1	2	3	4	5

Essex	Camb.	Norf.	Suff.					Bury	Sudbury	Lowestoft	Eye	Ipswich
E	C	N	S?	Luzula	silvatica	...	...	—	2?	—	—	—
E	—	—	S	"	Forsteri	...	...	—	2	—	—	—
E	C	N	S	"	pilosa	...	...	1	2	3	4	5
—	—	—	S	"	" Borreri	...	...	—	2	—	—	—
E	C	N	S	"	campestris	...	...	1	2	3	4	5
E	C	N	S	"	multiflora	...	...	1	2	3	4	—
—	—	N	S	"	" congesta	...	...	1	2	3	4	—
—	—	—	S	"	" pallescens	...	...	1	—	—	—	—
E	C	N	S	Typha	latifolia	...	...	1	2	3	4	5
—	—	—	S	"	" gracilis	...	...	1	—	—	—	—
E	C	N	S	"	angustifolia	...	...	1	2	3	4	5
E	C	N	S	Sparganium	ramosum	...	...	1	2	3	4	5
E	—	N	S	"	neglectum	...	...	1	2	3	4	—
E	C	N	S	"	simplex	...	...	1	2	3	4	5
E	C	N	S	"	minimum	...	...	1	2	3	—	5
E	C	N	S	Acorus	Calamus	..	...	1	2	3	4	5
E	C	N	S	Arum	maculatum	...	...	1	2	3	4	5
E	C	N	S	Lemna	trisulca	...	...	1	2	3	4	5
E	C	N	S	"	minor	...	...	1	2	3	4	5
E	C	N	S	"	gibba	...	...	1	—	3	4	5
E	C	N	S	"	polyrrhiza	...	...	1	2	3	4	5
E	C	N	S	Potamogeton	natans	...	...	1	2	3	4	5
E	C	N	S	"	polygonifolius	...	...	1?	—	3	4	—
E	C	N	S	"	plantagineus	...	...	1	—	3	4	—
E	C	N	S	"	rufescens	..	...	1	—	3	4	—
E	C	N	S	"	heterophyllus	...	...	1	—	3	4?	—
E	C	N	S	"	lucens	...	...	1	2	3	4	—
—	—	—	S	"	" acuminatus	...	...	1	—	—	—	—
—	C	—	S	"	Zizii	...	...	1	—	3	—	—
E	C	N	S	"	prælongus	...	...	1	—	3	4	—
E	C	N	S	"	perfoliatus	...	...	1	—	3	4	—
E	C	N	S	"	crispus	...	...	1	2	3	4	5
—	—	—	S	"	" serratus	...	...	—	—	3	4	—
E	—	N	S	"	obtusifolius	...	...	—	—	3	4	—
—	—	N	—	"	acutifolius	...	...	—	—	—	—	—
E	C	—	S	"	Friesii	...	...	1	—	3	—	—
E	C	N	S	"	pusillus	...	...	1	2	3	4	5
—	—	—	S	"	" tenuissimus	...	...	1	—	3	4	5
—	—	N	S	"	trichoides	...	...	1	—	—	4	—
E	—	N	—	"	flabellatus	...	...	—	—	—	—	—
E	C	N	S	"	pectinatus	...	...	1	2	3	4	5
—	—	N	—	"	" scoparius	...	...	—	—	—	—	—
—	—	—	S	"	" salinus	...	...	1	—	—	—	5
E	C	N	S	"	densus	...	...	1	2	3	4	5
—	—	—	S	"	" (b) lancifolius	...	...	1	—	3	—	—
—	—	—	S	"	" (c) angustifolius	...	...	1	2	3	—	—
E	—	N	S	Ruppia	maritima	...	...	—	—	3	4	5
E	C	N	S	"	rostellata	...	...	—	—	3	—	5
E	C	N	S	Zannichellia	palustris	...	...	1	2	3	4	—
—	—	—	S	"	" repens	...	...	1	—	3	—	—

Essex	Camb.	Norf.	Suff.				Bury	Sudbury	Lowestft	Eye	Ipswich
—	—	—	S	„	brachystemon	...	1	2	3	—	—
—	—	N	S	„	pedicellata	...	—	—	3	—	5
E	—	N	S	Zostera	marina	...	—	—	3	4	5
—	—	—	S	„	„ angustifolia	...	—	—	3	—	5
—	—	N	—	Naias	marina	...	—	—	—	—	—
E	C	N	S	Schœnus	nigricans	...	1	—	3	4	—
—	C	N	S	Cladium	Mariscus	...	1	—	3	—	—
—	C	N	S	Rhynchospora	alba	...	—	—	3	—	—
E	C	N	S	Eleocharis	palustris...	...	1	2	3	4	5
E	C	N	S	„	multicaulis	...	1	—	3	—	—
E	C	N	S	„	acicularis	...	1	—	—	4	—
E	C	N	S	Scirpus	maritimus	...	—	—	3	4	5
E	—	N	S	„	silvaticus	...	1	—	3	4	—
—	—	N	—	„	triqueter	...	—	—	—	—	—
E	C	N	S	„	lacustris	...	1	2	3	4	5
E	C	N	S	„	Tabernæmontani	...	1	—	3	4	5
E	C	N	S	„	cæspitosus	...	1	—	3	4	—
E	C	N	S	„	pauciflorus	...	1	—	3	4	—
E	C	N	S	„	fluitans	...	1	—	3	—	5
E	C	N	S	„	setaceus	...	1	2	3	4	—
—	—	N	S	„	Savii	...	—	—	3	4	—
—	—	—	S	„	„ monostachys	...	—	—	3	4	—
E	C	N	S	Blysmus	compressus	...	1	—	3	4	5
—	—	—	S	„	rufus	...	—	—	—	4	—
—	—	N	—	Eriophorum	vaginatum	...	—	—	—	—	—
E	C	N	S	„	polystachion	...	1	2	3	4	5
—	—	—	S	„	„	(b) minus	1	2	—	—	—
E	—	—	S	„	„	(c) elatius...	1	—	3	—	—
E	C	N	S	„	latifolium	...	1	—	3	—	—
E	C	N	S	Carex	dioica	...	1	—	3	—	—
E	C	N	S	„	pulicaris	...	1	—	3	4	—
E	C	N	S	„	disticha	...	1	—	3	4	5
E	—	N	S	„	arenaria	...	1	—	3	4	5
—	—	N	—	„	„ ligerica	...	—	—	—	—	—
E	—	N	S	„	divisa	...	—	—	—	4	5
E	C	N	S	„	vulpina	...	1	2	3	4	5
E	C	N	S	„	muricata	...	1	2	3	4	5
E	C	—	S	„	„ pseudo-divulsa	...	1	2	—	—	—
E	C	N	S	„	divulsa	...	1	2	3	4	5
E	C	N	S	„	teretiuscula	...	1	—	3	4	5
—	—	N	S	„	paradoxa	...	1	—	—	—	—
E	C	N	S	„	paniculata	...	1	2	3	4	5
E	C	N	S	„	axillaris	...	1	2	3	4	—
E	C	N	S	„	remota	...	1	2	3	4	5
E	C	N	S	„	stellulata	...	1	2	3	4	—
E	—	—	—	„	elongata	...	—	—	—	—	—
—	C	N	S	„	canescens	...	—	—	3	4	—
E	C	N	S	„	ovalis	...	1	2	3	4	5
E	C	N	S	„	stricta	...	1	—	3	4	—
E	C	N	S	„	acuta	...	1	—	3	4	—

Essex	Camb.	Norf.	Suff.					Bury	Sudbury	Lowestoft	Eye	Ipswich
E	C	N	S	Carex	vulgaris	—	...	1	2	3	4	5
—	—	—	S	"	" juncella	...	...	1	2	—	—	—
E	C	N	S	"	pallescent	...	...	1	2	3	4	—
E	C	N	S	"	panicea	...	...	1	2	3	4	5
—	—	N	S	"	limosa	...	...	—	—	3	—	—
E	C	N	S	"	strigosa	...	...	—	2	—	—	—
E	C	N	S	"	pendula	...	...	1	2	—	—	5
E	C	N	S	"	praecox	...	...	1	2	3	4	5
—	—	—	S	"	" capitata	..	...	1	2?	—	—	—
—	C	N	S	"	ericetorum	...	...	1	—	—	—	—
E	C	N	S	"	pilulifera	...	...	1	2	3	4	5
E	C	N	S	"	glauca	...	...	1	2	3	4	5
E	C	N	S	"	flava	...	..	1	—	3	4	—
—	—	N	S	"	" (b) lepidocarpa	...	...	1	—	—	4	—
—	—	—	S	"	" (c) (minor) true Oederi	...	...	1	—	—	—	—
E	C	N	S	"	(Oederi) flava cyperoides	...	...	1	—	3	4	—
E	C	N	S	"	extensa	...	...	—	—	3	4	5
E	C	N	S	"	Hornschuchiana	...	...	1	2	3	4	—
—	—	—	S	"	punctata	...	...	—	—	—	4	—
E	C	N	S	"	distans	...	...	1	—	3	4	5
E	C	N	S	"	binervis	...	...	1	—	3	4	—
E	—	—	—	"	laevigata	...	...	—	—	—	—	—
E	C	N	S	"	silvatica	...	...	1	2	3	4	5
E	C	N	S	"	Pseudo-cyperus	...	...	1	2	3	4	5
—	C	N	S	"	filiformis	...	...	1	—	3	—	—
E	C	N	S	"	hirta	...	...	1	2	3	—	5
E	C	N	S	"	ampullacea	...	...	1	2	3	4	—
E	C	N	S	"	vesicaria	...	...	1	2	3	4	—
E	C	N	S	"	paludosa	...	...	1	2	3	4	5
—	—	N	S	"	" (b) spadicea	...	...	1	—	—	4	—
E	C	N	S	"	riparia	...	...	1	2	3	4	5
—	—	N	—	"	trinervis	...	...	—	—	—	—	—
—	—	—	S	[Digitaria	sanguinalis]	...	...	1	—	3	—	5
—	—	N	S	"	humifusa	...	...	1	—	3	—	5
—	—	N	S	[Echinochloa	Crus-galli]	...	...	1	2	3	—	—
E	C	N	S	Setaria	viridis	...	...	1	2	3	—	5
—	—	—	S	["]	glauca	...	...	1	2	—	—	—
E	—	N	S	Spartina	stricta	...	...	—	—	—	4	5
E	—	N	S	[Phalaris	canariensis]	...	...	1	2	—	—	—
E	C	N	S	"	arundinacea	...	...	1	2	3	4	5
E	C	N	S	Anthoxanthum	odoratum	...	...	1	2	3	4	5
—	—	—	S	"	Puellii	...	...	1	2	—	—	—
—	C	—	—	Phleum	asperum	...	...	—	—	—	—	—
E	C	N	S	"	Boehmeri	...	...	1	—	—	—	—
E	C	N	S	"	arenarium	...	...	1	—	3	4	5
E	C	N	S	"	pratense	...	...	1	2	3	4	5
—	—	—	S	"	" (b) stoloniferum	...	...	1	—	—	—	—
—	—	—	S	"	" (c) praecox	...	...	1	—	—	—	—
—	—	N	S	"	" nodosum	...	...	1	—	3	—	—
E	C	N	S	Alopecurus	pratensis	...	...	1	2	3	4	5

Essex	Camb.	Norf.	Suff.				Bury	Sudbury	Lowestft	Eye	Ipswich
E	C	N	S	<i>Alopecurus geniculatus</i>	...	...	1	2	3	4	5
—	—	—	S	„ „ pronus	...	...	1	—	—	—	—
E	C	N	S	„ fulvus	...	...	1	—	—	—	—
E	—	N	S	„ bulbosus	...	...	—	—	3	—	—
E	C	N	S	„ agrestis	...	...	1	2	3	4	5
E	C	N	S	<i>Nardus stricta</i>	...	...	1	—	3	4	—
E	C	N	S	<i>Milium effusum</i>	...	...	1	2	3	4	—
E	C	N	S	<i>Phragmites communis</i>	...	...	1	2	3	4	5
E	—	N	S	<i>Psamma arenaria</i>	...	...	—	—	3	4	5
E	C	N	S	<i>Calamagrostis lanceolata</i>	...	...	1	2	3	—	—
E	C	N	S	„ epigejos	...	...	1	2	3	—	—
E	C	N	S	<i>Apera Spica-venti</i>	...	...	1	—	3	4	5
E	C	N	S	„ interrupta	...	...	1	2	3	4	—
E	C	N	S	<i>Agrostis canina</i>	...	...	1	—	3	4	—
E	C	N	S	„ vulgaris...	...	...	1	2	3	4	5
E	—	—	S	„ „ (b) pumila	...	...	1	—	—	4	—
E	C	N	S	„ alba	...	...	1	2	3	4	5
—	—	—	S	„ „ (b) subrepens	...	...	—	—	3	—	5
E	—	N	—	<i>Polypogon monspeliensis</i>	...	...	—	—	—	—	—
E	—	N	—	„ littoralis	...	...	—	—	—	—	—
E	—	N	—	<i>Gastridium lendigerum</i>	...	...	—	—	—	—	—
E	C	N	S	<i>Holcus lanatus</i>	...	...	1	2	3	4	5
E	C	N	S	„ mollis	...	...	1	2	3	4	5
—	—	N	S	<i>Corynephorus canescens</i>	...	...	1	—	3	—	—
E	C	N	S	<i>Aira cæspitosa</i>	...	...	1	2	3	4	5
E	C	N	S	„ flexuosa	...	...	1	2	—	—	5
E	C	N	S	„ caryophyllea	...	...	1	2	3	4	5
E	C	N	S	„ præcox	...	...	1	2	3	4	5
E	C	N	S	<i>Trisetum flavescens</i>	...	...	1	2	3	4	5
E	C	N	S	<i>Avena fatua</i>	...	...	1	2	3	4	5
—	—	—	S	„ „ pilosissima	...	...	1	2	—	4	—
—	—	—	S	„ „ intermedia	—	...	—	—	3	—	—
E	—	—	S	† „ strigosa	...	...	1	—	—	4	5
E	C	N	S	„ pratensis	...	...	1	2	3	—	5
E	C	N	S	„ pubescens	...	...	1	2	3	—	5
E	C	N	S	<i>Arrhenatherum elatius</i>	...	...	1	2	3	4	5
E	—	—	S	„ „ nodosum	...	...	—	—	3	—	5
E	C	N	S	<i>Triodia decumbens</i>	...	...	1	2	3	4	5
E	C	N	S	<i>Koeleria cristata</i>	...	...	1	—	3	—	5
—	—	—	S	„ „ gracilis	...	...	1	—	—	—	—
E	C	N	S	<i>Melica uniflora</i>	...	...	1	2	3	4	5
E	C	N	S	<i>Molinia cœrulea</i>	...	...	1	—	3	4	—
E	—	—	S	„ „ (b) depauperata	...	...	1	—	—	—	—
—	—	—	S	„ „ (c) major	...	...	—	—	3	—	—
E	C	N	S	<i>Poa annua</i>	...	...	1	2	3	4	5
—	—	N	S	„ bulbosa	...	...	—	—	3	—	5
E	C	N	S	„ nemoralis	...	...	1	2	3	4	—
E	C	N	S	„ trivialis	...	...	1	2	3	4	5
E	C	N	S	„ pratensis	...	...	1	2	3	4	5
—	—	—	S	„ „ (b) subcærulea	...	...	1	—	—	—	5

Essex	Camb.	Norf.	Suff.				Bury	Sudbury	Lowestft	Eye	Ipswich
—	—	—	S	<i>Poa pratensis strigosa</i>	...	...	1	—	—	—	—
E	C	N	S	" <i>compressa</i>	...	...	1	2	3	4	—
E	C	N	S	<i>Glyceria aquatica</i>	...	...	1	2	3	4	5
E	C	N	S	" <i>fluitans</i>	...	...	1	2	3	4	5
E	C	—	S	" " <i>pedicellata</i>	...	...	1	2	—	4	5
E	C	N	S	" <i>plicata</i>	...	...	1	—	3	—	5
E	C	—	S	<i>Sclerochloa maritima</i>	...	...	—	—	3	4	5
—	—	—	S	" " <i>(b) hispida</i>	...	...	—	—	—	—	5
E	—	—	S	" <i>Borreri</i>	...	...	—	—	3	4	5
E	—	N	S	" <i>procumbens</i>	...	...	—	—	3	—	5
E	C	N	S	" <i>distans</i>	...	...	1	—	3	4	5
E	C	N	S	" <i>rigida</i>	...	...	1	2	3	4	5
E	C	N	S	" <i>lohiacea</i>	...	...	—	—	3	4	5
E	C	N	S	<i>Briza media</i>	...	...	1	2	3	4	5
E	C	N	S	<i>Catabrosa aquatica</i>	...	...	1	2	3	4	5
E	C	N	S	<i>Cynosurus cristatus</i>	...	...	1	2	3	4	5
—	—	—	S	[" <i>echinatus</i> ]	...	...	—	—	3	—	—
E	C	N	S	<i>Dactylis glomerata</i>	...	...	1	2	3	4	5
E	—	N	S	<i>Festuca uniglumis</i>	...	...	—	—	—	—	5
E	C	N	S	" <i>sciuroides</i>	...	...	1	2	3	4	5
—	—	N	S	" <i>ambigua</i>	...	...	1	—	—	—	—
E	C	N	S	" <i>Myurus</i>	...	...	1	—	3	4	5
E	C	N	S	" <i>ovina</i>	...	...	1	2	3	4	5
E	—	—	S	" " <i>(c) duriuscula</i>	...	...	1	—	3	4	5
—	—	—	S	" " <i>glauca</i>	...	...	1	—	—	—	5
E	C	N	S	" <i>rubra</i>	...	...	1	—	3	4	5
—	—	N	S	" <i>oraria</i>	...	...	—	—	3	4	5
E	C	N	S	" <i>gigantea</i>	...	...	1	2	3	4	5
—	—	—	S	" " <i>triflora</i>	...	...	1	2	—	—	—
E	C	N	S	" <i>elatior</i>	...	...	1	2	3	—	5
E	C	N	S	" <i>pratensis</i>	...	...	1	2	3	4	5
E	C	N	S	" " <i>lohiacea</i>...	...	...	1	2	3	4	—
—	—	N	—	" <i>silvatica</i>	...	...	—	—	—	—	—
E	C	N	S	<i>Bromus erectus</i>	...	...	1	2	3	4	—
—	—	—	S	" " <i>(b) villosus</i>	...	...	—	—	—	4	—
E	C	N	S	" <i>asper-serotinus</i>	...	...	1	2	3	4	5
E	C	N	S	" <i>sterilis</i>	...	...	1	2	3	4	5
?	—	N	S	" <i>madritensis a diandrus</i>	...	...	—	2	—	4	—
—	—	N	S	[" <i>maximus</i> ]	...	...	1	—	—	—	—
—	—	N	S	[" <i>tectorum</i> ]	...	...	1	—	—	—	—
E	C	N	S	* <i>Serrafalcus secalinus</i>	...	...	1	2	3	4	—
E	C	N	S	" <i>racemosus</i>	...	...	1	2	3	—	5
E	C	N	S	" <i>commutatus</i>	...	...	1	2	3	4	—
E	C	N	S	" <i>mollis</i>	...	...	1	2	3	4	5
—	—	—	S	" " <i>(b) glabrescens</i>...	...	...	1	—	—	—	—
—	—	—	S	" " <i>(d) hordeaceus</i>...	...	...	1	—	3	—	5
E	C	N	S	* " <i>arvensis</i>	1	2	3	—	—
—	—	—	S	[" <i>patulus</i>]	1	—	—	—	—
E	C	N	S	<i>Brachypodium silvaticum</i>	1	2	3	4	5
E	C	N	S	" <i>pinnatum</i>	—	—	3	—	—

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Essex	Camb.	Norf.	Suff.			Bury	Sudbury	Lowestft	Eye	Ipswich	
E	C	N	S	Triticum	caninum	...	1	2	3	4	5
E	C	N	S	"	repens	...	1	2	3	4	5
—	—	—	S	"	" barbatum	...	1	2	—	—	—
E	—	—	—	"	" littoreum	...	—	—	—	—	—
E	C	N	S	"	pungens	...	—	—	3	—	5
—	—	—	S	"	" littorale	...	—	—	3	4	5
E	—	N	S	"	acutum	...	—	—	3	4	5
E	C	N	S	"	juncum	...	—	—	3	4	5
E	—	N	S	Elymus	arenarius	...	—	—	3	4	—
E	C	N	S	Hordeum	pratense	...	1	2	3	4	5
E	C	N	S	"	murinum	...	1	2	3	4	5
—	—	—	S	"	" arenarium	...	—	—	—	—	5
E	C	N	S	"	maritimum	...	—	—	3	4	5
E	C	N	S	Lepturus	filiformis	...	—	—	3	4	5
—	—	—	S	[	" incurvatus]	...	—	—	4	—	—
E	C	N	S	Lolium	perenne	...	1	2	3	4	5
—	—	—	S	"	" (c) tenue	...	1	—	—	—	—
E	C	N	S	[	" italicum]	...	1	2	3	4	5
E	C	N	S	"	temulentum	...	1	2	3	4	—
E	C	N	S	"	" (b) arvense	...	1	2	3	—	5
E	C	N	S	Equisetum	arvense	...	1	2	3	4	5
E	C	N	S	"	maximum	...	—	2	3	—	5
E	C	N	S	"	silvaticum	...	1?	—	—	—	—
E	C	N	S	"	limosum	...	1	2	3	4	5
—	C	—	S	"	" (b) fluviatile	...	1	2	3	—	—
E	C	N	S	"	palustre	...	1	2	3	4	5
—	—	—	S	"	" (b) polystachyum	...	1	2	—	4	—
—	—	—	S	"	" (c) nudum	...	1	—	—	—	—
—	C	N	S	"	hiemale	...	1	2	—	—	—
—	—	N?	—	"	variegatum	...	—	—	—	—	—
E	C	N	S	Polypodium	vulgare	...	1	2	3	4	5
E	—	—	S	"	" serratum	...	—	2	—	—	—
E	C	N	S	Lastrea	Thelypteris	...	1	—	3	—	5
E	C	N	S	"	Oreopteris	...	1	—	3	—	—
E	C	N	S	"	Filix-mas	...	1	2	3	4	5
—	—	N	S	"	cristata	...	—	—	3	4	5
—	—	N	S	"	uliginosa	...	—	—	3	—	5
E	C	N	S	"	spinulosa	...	1	2	3	4	5
E	C	N	S	"	dilatata	...	1	2	3	4	5
E	—	—	S	"	glandulosa	...	—	—	—	4	—
—	—	—	S	"	æmula	...	—	—	3?	—	—
E	C	N	S	Polystichum	aculeatum	...	1	2	3	4	5
E	—	N	S	"	" lobatum	...	1	2	3	4	5
E	—	N	S	"	angulare	...	1	2	3	4	5
E	—	N	S	Cystopteris	fragilis	...	—	—	3	4	—
E	C	N	S	Athyrium	Filix-fœmina	...	1	2	—	4	5
—	—	—	S	"	" (a) rhæticum	...	1	2	—	—	5
—	—	—	S	"	" (b) Filix-fœminal	...	2	3	4	—	—
E	—	—	—	"	" (c) molle	...	—	—	—	—	—
E	C	N	S	Asplenium	Adiantum-nigrum	...	1	2	3	4	5

Essex	Camb.	Norf.	Suff.				Bury	Sudbury	Lowestft	Eye	Ipswich
—	—	N	—	Asplenium	Adiantum-nigrum	(b)acutum?	—	—	—	—	—
E	C	N	S	"	Trichomanes	...	...	1	2	—	4 5
E	C	N	S	"	Ruta-muraria	...	...	1	2	3	4 5
E	C	N	S	Scolopendrium	vulgare	...	...	1	2	3	4 5
E	—	N	S	Ceterach	officinatum	...	...	1	2	—	4 —
E	C	N	S	Blechnum	boreale	...	...	1	2	3	4 5
E	C	N	S	Pteris	aquilina	...	...	1	2	3	4 5
E	—	N	S	Osmunda	regalis	...	...	1?	2?	3	4 5
E	C	N	S	Botrychium	Lunaria	...	...	1	—	3	4 5
E	C	N	S	Ophioglossum	vulgatum	...	...	1	2	3	4 5
E	—	N	S	Pilularia	globulifera	...	...	—	—	3	—
E	C	N	S	Lycopodium	clavatum	...	...	1	—	—	—
E	C	N	S	"	inundatum	...	...	1	—	3	4 —
—	—	N	—	"	Selago	...	...	—	—	—	—
E	—	—	S	Chara	fragilis	...	...	1	—	—	4 —
—	—	—	S	"	" (d) Hedwigii	...	...	1	—	—	—
E	—	N	S	"	aspera	...	...	1	—	3	4 —
—	—	N	S	"	polyacantha	...	...	1	—	—	—
—	—	N	S	"	contraria	...	...	1	—	—	—
E	C	—	S	"	hispida	...	...	1	—	3	4 —
E	C	—	S	"	vulgaris	...	...	1	2	3	4 —
—	—	—	S	"	" (b) longibracteata	...	...	1	—	3	—
—	—	—	S	"	" (c) papillata	...	...	1	—	—	—
—	—	N	—	"	tomentosa	...	...	—	—	—	—
—	—	N	—	Lychnothamnus	stelliger	...	...	—	—	—	—
—	C	—	—	Tolypella	nidifica	...	...	—	—	—	—
—	—	—	S	"	glomerata	...	...	1	—	—	—
—	—	—	S	"	intricata	...	...	1	—	—	—
—	C	—	—	Nitella	tenuissima	...	...	—	—	—	—
E	—	—	—	"	gracilis	...	...	—	—	—	—
E	—	—	S	"	translucens	...	...	—	—	3	—
E	C	—	S	"	flexilis	...	...	—	—	3	— 5
—	—	—	S	"	opaca	...	...	1	—	3	—
E	C	—	—	"	syncarpa	...	...	—	—	—	—



THE FLORA OF SUFFOLK AND THE THREE ADJOINING COUNTIES COMPARED WITH THE FLORA OF HOLLAND.

FROM the geographical position of Holland and East Anglia, lying nearly between the same parallels of latitude, and on the opposite sides of a sea scarcely more than 120 miles in width, there is an antecedent probability that the two countries have a closely assimilated Flora. Under this impression, Dr. Babington commenced an examination of Dr. Suringar's *Zakflora* of Holland, which, from infirm health, he was unable to complete. With the help of his notes, the investigation has been continued; and its result is here briefly stated.

As the Continental Floras usually include the cereals, cultivated vegetables, shrubs and trees, not native to those countries, these have been omitted, that the comparison may be made on equable conditions. For the same reason the Characeæ of East Anglia are passed over, as those of Holland are not included in Dr. Suringar's work. The East Anglian species are estimated as 1339, those of Holland as 1466. Of these about 1120 are common to the two countries. About one in six of the East Anglia species is absent from the *Zakflora*; and about one in four-and-a-half of the Dutch species is wanting in the East Anglian list.

Having regard to those English species, which, exclusively, or very nearly so, belong to East Anglia, a large proportion of them belongs also to Holland. Its Flora includes the following Eastern Counties plants: (those marked † have been introduced into Holland). *Silene Otites*; *S. conica*; *Holosteum umbellatum*; *Scleranthus perennis*; *Medicago silvestris*?; *M. falcata*; *M. minima*; *Melilotus arvensis*; †*Trifolium ochroleucum*; *Lathyrus tuberosus*; *Herniaria glabra*; *Tillæa muscosa*; *Carum Bulbocastanum*; †*Peucedanum officinale*; *Galium anglicum*; *Artemisia campestris*; *Senecio paludosus*; *S. palustris*; *Crepis taraxacifolia*; *C. fætida*; *Melampyrum arvense*; *Veronica verna*; *V. Triphyllos*; *Teucrium Scordium*; *Primula elatior*; *Suæda fruticosa*; *Obione pedun-*

culata; *Sturmia Læselii*; *Stratiotes aloides*; *Carex ericetorum*; *Setaria viridis*; *Phleum Bæhmeri*; *Apera interrupta*; *Corynephorus canescens*; *Lastrea cristata*.

On the other hand, the following Eastern Counties species are not recorded for Holland: *Arenaria leptoclados*; *Lathyrus hirsutus*; *Peucedanum palustre*; *Galium Vaillantii*; *Diotis maritima*; *Verbascum pulverulentum*; *Melampyrum cristatum*; *Chenopodium botryodes*; *Statice caspia*; *Actinocarpus Damasonium*; *Potamogeton trichoides*; *Lastrea uliginosa*.


Muscari racemosum in Suffolk is represented by *M. botryodes* in Holland, and *Frankenia levis* by *F. pulverulentum*.

There are other East Anglian plants, which are less peculiarly so than those in the preceding lists; and as regards which, nearly the same proportions are present in, or absent from, the Flora of Holland. The following species belong to both Floras: *Anemone pulsatilla*; *Barbarea stricta*; *Sagina ciliata*; *Genista pilosa*; *Vicia gracilis*; †*Lathyrus maritimus*; *Eryngium campestre*; *Hypochæris maculata*; *Arnoseris pusilla*; *Filago apiculata*; *F. spathulata*; *Campanula rapunculoides*; *Polygonum maculatum*; *P. mite*; *Hippophae rhamnoides*; *Ceratophyllum submersum*; *Orchis hircina*; *Aceras anthropophora*; *Leucojum æstivum*; *Carex paradoxa*; *Digitaria humifusa*; *Alopecurus bulbosus*; *Poa bulbosa*.

Of like East Anglian plants the following do not occur in Holland: *Fumaria parviflora*; *F. Vaillantii*; *Ulex nanus*; *Trifolium suffocatum*; *Verbascum virgatum*; *Veronica spicata*; *Ophrys aranifera*.

From the above remarks, and the contrasted lists, it will be seen that there is a close correspondence in the Floras of the districts lying on the East and West of the South portion of the German Ocean. Their agreement would be still closer if the plants of Dutch Lemberg, the South-Eastern district of Holland, removed from the coast, were excluded from the comparison. A fair proportion of British plants, which do not occur in East Anglia, may be found in Holland, excluding the Alpine forms.

THE PROGRESS OF BOTANICAL STUDY IN SUFFOLK.

HE Materials, from which an account of Botanical Progress in Suffolk may be gathered, are far from ample ; and for the most part are connected with the present and last centuries. The position of the County, removed from the Capital, the Universities, the Cathedral Cities, and other chief seats of learning in England, was not such as would lead to the early study of Natural Science, or foster its growth. No early written records of the plants of Suffolk are known to exist. In fact, for our first step in Suffolk Botany, we must go back to a somewhat doubtful interpretation of an historical monument. In some præ-reformation glass in Gislegham Church, the Columbine, *Aquilegia vulgaris*, is represented. The flower is of the single type, which is more usual in the wild, than in the cultivated plant. Similar flowers have been recently found in the neighbouring parish of Yaxley by the Rev. W. H. Sewell, who regards the painting as the record of a plant grown on the spot in the fifteenth century, or even earlier.

Coming down to written history, the earliest mention of a Suffolk plant is the Sea Pea, *Lathyrus maritimus*. The following account, partly legendary, is given by Martyn in his edition of Miller. ‘We learn from the epistles of the learned Caius that the Sea Pea was first observed in the year 1555, when in a great scarcity, the poor people on the coast of Suffolk about Orford and Aldborough supported themselves with it for some time. This story is retailed by Snow and Camden ; with the addition, that they were supposed to spring up opportunely in that year of dearth, from a ship-wrecked vessel loaded with Peas : whereas the Sea Pea differs from all the varieties of the garden or field Pea, in the length and continuance of its roots, the smallness and bitterness of its seed, and in the whole habit and appearance of the plant. It had probably grown a long time on Orford Beach unobserved, till extreme want called it into public notice. The seed is so bitter that it could not be eaten, except in a want of better food, and it is certainly not used at present, though it might be gathered in sufficient quantity ; nay, it is neglected by the very birds. The legend of the miraculous arrival

of these Peas in a time of extreme scarcity, is still believed among the country people.' Gardener's and Botanist's Dictionary, vol. II, not paged.

Several other writers mention the same fact. Dr. Bullen, Rector of Blaxhall in Suffolk from 1550 to 1554, wrote in 1562 his "Bulwark of Defence," in which is included 'A Book of Simples,' being a herball in the form of a dialogue. In this he mentions the crop of sea pease on the beach near Orford and Aldborough, which preserved the poor in a time of dearth. Further accounts are to be seen in Johnson's *Gerarde*, p. 1250; Parkinson's *Theater*, p. 1060; and Lobel's *Illustrations*, p. 164. (Pulteney's *Progress of Botany in England*, vol. I, p. 81.)

Dr. William Turner, educated at Pembroke College, Cambridge, afterwards Dean of Wells, published in 1551 the first part of a New Herball in London; the second part at Cologne in 1562; and the third part at Cologne, with a reprint of the other two parts, in 1568. Dr. Pulteney says, 'The true era of Botany in England must commence with him.' He records British plants from many localities; among them two from Suffolk, namely, the Satyrion of Dioscorides, by which he must mean *Epipactis latifolia*, and *Euphorbia amygdaloides*. The former, he tells us, he had seen twice only in England. The latter he found in my Lord Wentfurthe's Park, beside Nettlestede, Suffolk.

In 1597 appeared the 'Herball, or General Historie of Plants, Gathered by John Gerarde, Master of Chirurgerie, printed in London. The following species of Suffolk plants are reported by him: *Cardamine pratensis*, *amara* and *hirsuta*, p. 203; *Melilotus officinalis*, p. 1034; two *Astragali*, p. 1059; *Ferrum equinum*, i.e. *Hippocrepis comosa*, p. 1056; *Parnassia palustris*, p. 692; *Eryngium maritimum*, p. 1000; *Serratula tinctoria*, p. 577; *Spiranthes autumnalis*, p. 168; two English Matweeds, presumably *Psamma arenaria* and *Elymus arenarius*, pp. 38, 39. The early mention of the *Serratula* is interesting, as doubts have been recently entertained as to its being a native in the County. Gerarde's *Herball* long remained a popular book; and in 1633 a second edition was called for (London fol.) The title sets forth that it is 'very much enlarged and amended by Thomas Johnson, Citizen and Apothecary of London.' This edition is generally quoted as *Ger.em.* (Gerarde emaculatus). It adds to our Suffolk plants *Tithymalus*, i.e., *Euphorbia paralias*, Sea Spurge, growing at Langtree (Landguard) point, right against Harwich, where it still may be found, pp. 498-505.

John Parkinson, Apothecary of London and the King's Herbalist, published in 1640 his Theater of Plants, (London fol.) It contains but few notices of Suffolk plants. Two of these are taken from Gerarde; he also refers to the Sea Pea. He adds to the County list, *Solanum lethale*, i.e., *Atropa Belladonna*, Deadly Night Shade, Framlingham, p. 648; *Stachys palustris*, Clown's Woundwort, p. 588. (See Prior's Popular Names of British Plants, p. 50); *Asplenium Ruta muraria* (p. 1050) and *Ceterach officinarum* (p. 1048), both from Framlingham.

Ten years elapsed before another plant was recorded for Suffolk. As its locality is on or near the Cambridgeshire border there might be room to doubt to which County it belonged. Judgment in our favour has come to us by default, as Professor Babington has omitted the plant from his Flora of Cambridgeshire. As *Silene Otites* is widely distributed in the North-west district of Suffolk, there need be no hesitation in claiming it for this County. It is first recorded in Phytologia Britannica of Wm. How, M.D., London, 1650. 'Otites Taberna sive sesamoides parv. Muscipula salamantica minor' *Spanish Catchfly*, Found on Newmarket Heath, Mr. Sare.

Another plant found on or near the border line has been inserted in the Flora of Cambridgeshire, as it was found convenient to include Exning, an outlying portion of Suffolk in that work. The original notice is a Ms. note in a copy of J. Martyn's Methodus Plantarum 1730 in the Library of Trinity College, Cambridge, by Mr. Jackson. '*Mentha silvestris*. In a bushy close near Exning, 1685.'

Our next authority for Suffolk plants is the justly celebrated Rev. John Ray, Fellow of Trin. Coll., Cambridge: born 1628, deceased Feb. 17th, 1705-6. To this eminent Naturalist and Divine much of the after progress of Botany and other Natural Sciences in England is chiefly due. Between 1660 and 1690 he published several Botanical works. In the last-mentioned year his Synopsis Methodica Stirpium Britannicarum was published; which was followed by an improved edition in 1696. This work is still recognized as a standard authority on British Botany. Its influence is still felt, though nearly two hundred years have passed away since it first saw the light; and though the systems of Linnæus and Jussieu have in the meantime twice changed and vastly improved Botanical classification. The Synopsis adds the following plants

to our Suffolk list: *Thlaspi arvense*; *Lepidium campestre*; *Frankenia lævis*; *Scleranthus perennis*; *Medicago minima* & *denticulata*; *Trifolium scabrum* & *glomeratum*; *Prunus Cerasus*; *Myriophyllum verticillatum*; *Cicuta virosa*; *Artemisia campestris*; *Ilex Aquifolium*; *Veronica Triphyllos*; *Primula elatior*; *Ophrys apifera* & *muscifera*; *Avena pratensis* & *Dactylis glomerata*.

An edition of the Synopsis was published in 1724 by J. J. Dillenius, M.D. This celebrated botanist was born at Darmstadt, and was educated at the University of Giessen. He was brought to England by Wm. Sherard, and at his instance edited the Synopsis. On the foundation of the Professorship of Botany in the University of Oxford under the will of Mr. Sherard, Dillenius was appointed to fill the chair. In 1735 he took an Oxford ad-eundem Degree. He died of apoplexy April 2, 1747, in his sixtieth year. The additions to the Suffolk list in *Dill. Ray* are *Thalictrum minus*; *Helleborus fœtidus*; *Lepidium ruderales*; *Erysimum cheiranthoides* and *orientale*; *Sedum anglicum*; *Asperula cynanchica*; *Senecio palustris*; *Asperugo procumbens*; *Verbascum pulverulentum*; *Orobanche ramosa*; *Thesium humifusum* & *Urtica pilulifera*.

In the Herbarium of that diligent Botanist the Rev. Adam Buddle, in the Botanical Department of the South Kensington Museum, formerly in Sir Hans Sloane's Museum, there are several Suffolk plants; probably many, as in 1698 his home for a time was at Henley in Suffolk. Unfortunately he rarely gives localities for his plants. His Mss. in the British Museum have been looked into by a friend but without important result. He seems to be the earliest authority for *Medicago falcata*; *Lathyrus palustris*; *Eryngium campestre*; *Triticum junceum*; *Nitella flexilis*.

In 1763 the *Plantæ Cantabrigienses* of Thos. Martyn, B.D., F.R.S., Professor of Botany in the University of Cambridge, was published. To this were appended 'Lists of the more rare plants growing in many parts of England and Wales.' In 1797 he issued the first part of an edition of P. Miller's Botanical Dictionary, which was completed in 1807. P. M. Miller's original work was first published in 1724. Martyn's works added to our Suffolk list, *Glaucium luteum*; *Cakile maritima*; *Honkeneya peploides*; *Malva moschata*; *Prunus Avium*; *Artemisia maritima*; *Neottia Nidus avis*; *Acorus Calamus*; and several Cryptogams.

So far the progress of botanical science in Suffolk had been slow, and its results small ; nor is there evidence that it had taken root in the County. The presumption is, that the ascertained local Flora had been gleaned by outsiders and not by native botanists. The authorities given for local plants by How, Ray, and Dillenius, viz. Sare, Dale, Lawson, Sherard, Willisell, and Newton, may include one or more natives of the County ; but this is doubtful. Sir Dudley Cullum, 3rd Bart., born 1627, deceased 1720, took a lively interest in gardening and in planting forest and rare trees : but he does not appear to have made a special study of botany. It remained for some other members of his family to make a new departure, and to become the fathers of this science in Suffolk.

Sir John Cullum, 6th Baronet, was born at Hawstead Place in 1732. He was educated at Bury Grammar School and St. Catherine's Hall, Cambridge. He took his B.A. degree as 4th Jun. Optime in 1756, and was elected a Foundation Fellow of his College in 1759. He was instituted to the Rectory of Hawstead in 1762, and to that of Great Thurlow in 1774. Sir John became F.S.A. March 1774, and F.R.S. in 1775. His death occurred at Hardwick House, and he was buried at Hawstead in 1785. His only published work is the History of Hawstead, 1774, in which he gives a list of the wild plants in that parish. This contains but a small part of his botanical researches, which are more fully recorded in his Naturalist's Journal for the years 1772 to 1785. The Journal is a daily record of observations in various scientific departments and of historical memoranda. It is enriched by frequent meditations in Latin verse, evidencing a highly cultivated mind and a ready muse. It very fully illustrates the Flora of the neighbourhood of Bury St. Edmunds, and records various plants from the Suffolk coast and the North of the County. Upwards of 500 flowering plants and more than 50 Cryptogams of the County are for the first time recorded in the Journal. Among the more important of these are—*Clematis Vitalba* ; *Anemone Pulsatilla* ; *Camelina sativa* ; *Helianthemum vulgare* ; *Viola hirta* ; *Saponaria officinalis* ; *Silene noctiflora* ; *Alsine tenuifolia* ; *Holosteum umbellatum* ; *Hypericum Androsæum* and *elodes* ; *Geranium pratense*, *sanguineum*, *rotundifolium* and *columbinum* ; *Linum angustifolium* ; *Genista pilosa* ; *Trifolium ochroleucum* and *subterraneum* ; *Vicia lathyroides* ; *Lathyrus Aphaca* and *Nissolia* ; *Onobrychis sativa* ; *Spiræa Filipendula* ; *Potentilla verna* ; *Pyrus communis* ; *Peplis Portula* ; *Tillæa muscosa* ;

Caucalis daucooides and latifolia; *Inula Helenium*; *Artemisia Absinthium*; *Arnoseris pusilla*; *Lactuca Scariola*; *Campanula glomerata*; *Gentiana Amarella and campestris*; *Limnanthemum nymphæoides*; *Convolvulus Solanella*; *Anchusa sempervirens*; *Hyoscyamus niger*; *Orobanche Rapum*; *Verbascum Lychnitis*; *Veronica spicata and verna*; *Calamintha Nepeta*; *Leonurus Cardiaca*; *Marrubium vulgare*; *Pinguicula vulgaris*; *Utricularia vulgaris and minor*; *Ophrys aranifera*; *Convallaria majalis*; *Ornithogalum umbellatum and nutans*; *Muscari racemosum*; *Colchicum autumnale*; *Potamogeton perfoliatus*; *Carex pendula and distans*; *Aira caryophyllea and præcox*; *Equisetum hiemale and Ophioglossum vulgatum*. This valuable Journal has furnished large stores of information to the compiler of the present Flora. It does not appear to have been consulted in preparing the list of 1860.

The progress of Botany in Suffolk must have been in a measure checked by the removal of Sir John Cullum. It is true that his mantle was taken up by his brother, but it was some time before he put it on in public. Meanwhile other labourers seem to have been working in the Suffolk field, and an interesting record of their labours has happily been preserved. In a copy of Dillenius Ray, in the library of the Oxford Botanical Garden, there are some important Ms. notes connected with the Botany of Suffolk, supposed to be from the hand of Mr. Pitchford, not later than 1780: as it mentions about twenty rare plants discovered by Sir John Cullum, it shows that the fruit of his labours was not wholly buried in his journal, but was becoming available for the edification of others. A few plants by other discoverers are mentioned, and are as follows: *Delphinium consolida* (*Ajaxis*) & *Obione pedunculata* found by Rev. H. Bryant 1764. *Daphne Mezereum* and *Fritillaria Meleagris* by Mr. Crowe (well known in connection with the British Salices). *Vicia lutea* by Mr. Humphrey. *Digitaria sanguinalis* by J. Dickson, F.L.S., Compiler of 'Hortus Siccus Britannicus.' *Lolium bromoides*—*Festuca uniglumis* by Samuel Goodenough, L.L.D., F.R.S., author of a paper in Linn. Soc. Transac, vol. II, on the British species of *Carex*; Treasurer of the Linn. Soc., and Lord Bishop of Carlisle 1808 to 1827. *Lepidium latifolium* by Mr. Pitchford. To Mr. W. Hudson, author of the *Flora Anglica* we owe *Coriandrum sativum* about 1762.

Sir Thomas Gery Cullum, 7th Baronet, takes the second place among the Suffolk Botanists of the 18th century. He was born at

Hardwick in 1741, and was educated at the Charter House. He was Bath King of Arms from 1771 to 1800. He became a member of the Corporation of Surgeons in 1778, and of the College of Surgeons in 1800, and attained to eminence as a practitioner in Bury St. Edmunds. He became in succession F.R.S., F.L.S., & F.S.A. He early applied himself to the study of Botany, and some interesting finds by him are recorded in Sir John's Journal. His '*Floræ Anglicæ Specimen*' was commenced (inchoatus) in 1774, and, though printed, was not published. In 1785 he succeeded to the Baronetcy and family estate; he lived to the ripe age of 90, and was buried at Hawstead.

The contributions of Sir T. G. Cullum to the Flora of Suffolk may be found in Gillingwater's History of Bury, 1804, and in the Botanist's Guide, 1805. The former work contains an anonymous list of Suffolk plants, chiefly from the neighbourhood of Bury. From internal evidence it is plain that it was written by Sir Thomas. There is also a statement in the Botanist's Guide, p. 557, to the effect that the list was from his hand. The list contains 180 plants, nearly 40 of which are new records for Suffolk. In the Botanist's Guide 89 Suffolk plants have Sir Thomas Cullum's name attached to them, but the greater part of these had appeared in his list of the preceding year. The more interesting and important species contributed by him are—*Papaver hybridum*; *Sisymbrium polyceratum*; *Althæa officinalis*; *Medicago silvestris*; *Trifolium medium* and *suffocatum*; *Lathyrus silvestris*; *Lythrum Hyssopifolia*; *Tamarix anglica*; *Myriophyllum spicatum*; *Herniaria glabra*; *Ænanthe peucedanifolia* (? *Lachenalii*); *Chærophyllum Anthriscus*; *Hypochæris maculata*; *Crepis fætida*; *Cuscuta Epithymus*; *Orobanche elatior*; *Mentha piperita*; *Anagallis cærulea*; *Chenopodium hybridum*; *Rumex maritimus* and *palustris*; *Salix fragilis* and *undulata*; *Epipactis palustris*; *Herminium Monorchis*; *Cephalanthera ensifolia*?; *Sturmia Læselii*; *Iris fœtidissima* and *Tulipa silvestris*. It has seldom fallen to the lot of a Naturalist to add so large a list of noteworthy plants to a County Flora. His eminence as a Botanist is sufficiently attested by the flattering dedication of the English Flora to him by Sir J. E. Smith, and by the genus *Cullumia-Lisianthus*, named in compliment to him.

Six years before the publication of the History of Bury, Loder's History of Framlingham was given to the world. This work was enriched by a list of local plants, drawn up by one who has a name in

literature, as well as in science—the poet Crabbe. George Crabbe was born at Aldeburgh in Suffolk, 24th December, 1754. He was son to an officer in the Customs, who at first thought of training him for a like employment; but eventually apprenticed him to an apothecary, to prepare him for the medical profession. Having conceived a taste for poetical composition, and finding himself in considerable straits, he applied about 1780 to the celebrated Edmund Burke. Acting on his advice, he qualified himself for Holy Orders, and in 1781 he was ordained to the curacy of Aldeburgh, and in 1783 obtained promotion in Dorsetshire. For a time he held the curacy of Great Yarmouth; and he lived at Great Glemham and Rendham, where he had an opportunity of studying the Botany of the neighbourhood of Framlingham. He afterwards held the livings of Merston and Croxton Kerryel in Leicestershire, where he made his botanical notes, which have proved so useful to the Editors of the recently-published Flora of that County. He lived to a good old age, and died at Trowbridge, Wiltshire, 8th February, 1832.

His Framlingham list includes 226 flowering plants and a few Cryptogams. Its importance chiefly consists in its being the first considerable contribution to the Botany of East Suffolk, and as adding nearly 40 new species to the Flora of the County. Mr. Crabbe also contributed largely to the Suffolk list in the Botanist's Guide. Few of these were additions to his list of 1798. Others of them, though new to the County, do not rest solely on his authority, but are confirmed by other names, and can only be credited to him in conjunction with other persons.

His plants, on the whole, are not such rare forms as those of the preceding list. The following are selected from them, *Anemone nemorosa*; *Ranunculus Lingua*; *Silene quinquevulnera*; *Cerastium tetrandum*; *Hypericum hirsutum*; *Falcatula ornithopodiodes*; *Prunus Padus*; *Bupleurum tenuissimum*; *Pulicaria vulgaris*; *Carduus eriophorus*; *Stratiotes aloides*; *Crocus vernus*; *Actinocarpus Damasonium*; *Datura Stramonium*; *Typha angustifolia*; *Scirpus silvaticus*; *Carex canescens* and *extensa*; *Melica uniflora*; *Serrafalcus secalinus*; *Hordeum maritimum*; *Lolium temulentum*.

In 1800-3, Sir J. E. Smith, M.D., F.R.S., published his *Flora Britannica*, 3 vols. 8vo., London. The *English Flora*, 4 vols. 8vo., was not

published until more than 20 years after. In his earlier work mention is made of several Suffolk plants, of which the following were new to the County—*Silene conica*; *Oenothera biennis*; *Sedum album*; *Diotis maritima*; three *Chenopodia*; *Atriplex farinosa*; *Digitalis humifusa*; *Corynephorus canescens* and *Poa bulbosa*.

The publication of the Botanist's Guide in 1805 augured well for the progress of Suffolk Botany in the 19th Century. Its list of Suffolk plants comprises 365 species, of which 112 are Cryptogams; and its contributors in the County amounted to forty, all of whom, except two, were still alive when the Guide was published. That so many persons were at that time giving attention to the local Botany, is an evidence that the science had taken firm root in the County, and was bringing forth good fruit. The Guide was compiled by Dawson Turner, F.R.S., &c., and Lewis Weston Dillwyn, F.R.S., &c. It does not pretend to give complete lists of the plants of the various Counties, but only the rarer and more interesting species. The fact that one of the Editors resided at Yarmouth, on the border of this County, largely assisted in making the Suffolk list more perfect.

The chief contributors to the Suffolk portion of the Botanist's Guide and the more important plants added by them to the County Flora, are, Dawson Turner, Esq., F.R.S., F.A.S., F.L.S., &c., a banker in Yarmouth; we owe to him *Hesperis matronalis*; *Erodium moschatum*; *Potentilla procumbens*; *Chærophyllum sativum*; *Suaeda maritima*; *Ceratophyllum submersum*; *Gagea lutea*; *Potamogeton rufescens*; *Eleocharis acicularis*; *Carex axillaris*, *remota*, *Æderi* (*cyperoides*), *binervis*, and *filiformis*; *Avena fatua* and 54 Cryptogams.

Lilly Wigg, F.L.S., was trained as a shoemaker; for a time he was a schoolmaster and afterwards a clerk in Messrs. Gurney and Turner's bank at Yarmouth: to him we owe *Barbarea præcox*; *Viola palustris*; *Trifolium maritimum*; *Carduus tenuiflorus* and *pratensis*; *Pyrola rotundifolia*; *Verbascum Blattaria*; *Centunculus minimus*; *Salix argentea*; *Polygonatum multiflorum*; *Rhynchospora alba*; *Eleocharis multicaulis*; *Scirpus pauciflorus*; and two Cryptogams. Mr. Wigg is also the earliest authority for *Peucedanum palustre*; *Valerianella dentata*; *Lamium incisum* and with others for *Cladium Mariscus*.

T. J. Woodward, of Bungay (who also contributed to Martyn's, Miller and Withering's Flora), is first authority for *Helleborus viridis*; *Pyrus Aria*; *Vaccinium Oxycoccus*; *Suæda fruticosa*; *Aristolochia Clematidis*; *Salix pentandra*; *Alopecurus bulbosus*; *Brachypodium pinnatum*. He is authority for several other plants of later date.

David Elisha Davy lived for some time at Ufford, and at the Grove, Yoxford. He was Receiver-General of Transferred Duties. He contributed largely to the Botanist's Guide. Several lists in Ms. from his hand are in the Library of the British Museum. Two of these are of plants chiefly collected by himself. New plants by him in B.G. are—*Crambe maritima*; *Pyrus torminalis*; *Cyclamen hederifolium*; *Juncus maritimus*; *Carex Hornschuchiana*. He is the authority for *Corydalis claviculata*; *Drosera rotundifolia*; *Dianthus Armeria*; *Buffonia tenuifolia*? *Vicia bithynica*; *Erythræa pulchella*; *Orobanche cærulea*; *Verbascum virgatum*; *Equisetum maximum*.

Other plants, first mentioned for Suffolk in the Botanist's Guide, are *Fumaria parviflora*; *Geranium phæum* and *pyrenaicum*; *Chrysosplenium alternifolium*; *Archangelica officinalis*; *Inula crithmoides*?; *Senecio paludosus*; *Leucojum æstivum*; *Pilularia globulifera*; *Lycopodium inundatum*.

No new work, having special reference to Suffolk Botany, was published until 1834, when the Natural History of Yarmouth was issued by C. J. and James Paget. The latter gentleman is now an eminent London Surgeon, created Baronet in 1871. The portion of Suffolk referred to in the History, is the North-Eastern corner, comprised in the Hundreds of Lothingland and Mutford. For the more common plants localities are not given, and many of the rarer ones are taken from the Botanist's Guide. Among the remainder the additions to our Flora must be sought, which are many, considering the limited area from which they have been collected. Some of the more important species are—*Lepidium Smithii*; *Alyssum maritimum*; *Sagina maritima*; *Thrinicia hirta*; *Tragopogon minor*; *Myosotis cæspitosa*; *Limosella aquatica* (Borrer); *Chenopodium ficifolium*; *Beta maritima*; *Obione portulacoides*; *Salix cinerea* and *ambigua* (Borrer); *Populus alba* and *canescens*; *Myrica Gale*; *Malaxis paludosa* (Leathes); *Juncus squarrosus*, &c.; *Scirpus maritimus* and *cæspitosus*; *Carex vulpina*, *muricata*, *paniculata*, *stellu-*

lata, limosa, flava, and Pseudo-cyperus; *Agrostis canina* and *alba*; *Triodia decumbens*; *Molinia cærulea*; *Glyceria fluitans*; *Sclerochloa maritima* and *procumbens*; *Briza media*; *Festuca rubra, gigantea* and *pratensis*; *Bromus asper*; *Serrafalcus racemosus*; *Brachypodium silvaticum*; *Triticum repens*; *Hordeum pratense*; *Equisetum limosum* and *palustre*; *Polypodium vulgare*; *Lastrea Oreopteris*.

Lists of Mosses and other Cryptogams are also given by Messrs. Paget, of which about 100 localized species are new to Suffolk. Besides these there are many others, for which localities have not been given, and which consequently cannot with certainty be reckoned as Suffolk species. Sir J. Paget's Herbarium in Norwich Museum has been consulted, it adds no important species to the Flora of Suffolk.

The New Botanist's Guide, published in 1835-7, brought with it a fresh contribution to the Flora of Suffolk. It was compiled by Mr. Hewitt Cottrell Watson, a gentleman, who, by his subsequent writings, the *Cybele Britannica*, *Topographical Botany* and other important works gave a fresh impulse to the study of Botanical Science and placed himself in the first rank of British Botanists. Mr. Watson came of a good stock. He was born in 1804 at Firbeck in the South of Yorkshire. When twenty-two years old, he became the possessor of a small estate in Derbyshire; soon after which he went to study in Edinburgh. In 1835 he purchased a residence at Thames Ditton, Surrey, which became his future home. For a time he diligently prosecuted the study of Entomology; but afterwards he gave himself almost wholly to the investigation of Geographical Botany, which in his hands attained the dignity of a special science. Though apparently absorbed by Botany, he had an interest in and leisure for other matters. He gave his attention at times to phrenology; and he was also an earnest politician of the democratic school, and had relations with the business of the world. He was for many years a shareholder in the South Australian Land Co., and took a lively interest in its affairs, and for several years, towards the end of his life, acted as one of the auditors of its accounts. He attained the ripe age of seventy-seven, and was buried at Thames Ditton.

The New Botanist's Guide, coming so soon after the last-named work, could not be expected to add largely to the numbers of recognized Suffolk species. It utilized the information contained in the Older Guide,

in the Natural History of Yarmouth, and in the works of Sir J. E. Smith. To this was added new matter obtained from several contributors, but little or nothing from the personal researches of the Author, who likely, at the time, had no special knowledge of the County.

The Authorities for new Suffolk plants in N.B.G., and the added species, are,—D. Stock, of Bungay—*Medicago maculata*; *Monotropa Hypopitys*; *Myosotis collina*; *Veronica polita*; *Chenopodium murale*; *Polygonum minus*; *Ceratophyllum demersum*; *Lemna gibba*; *Schœnus nigricans*; *Carex divulsa*; *Calamagrostis epigejos*; *Kœhleria cristata*.

Samuel Woodward, of Norwich, *Carex stricta*.

— Winch, *Isatis tinctoria*.

Miss Bell, *Hypericum calycinum*.

John Lindley, Ph.D., F.R.S., &c., Professor of Botany in University College, London, *Rubus Kœhleri*.

Messrs. Paget, *Apium repens*.

The later works of Mr. Watson deal with a speciality in Botany—the Geographical Distribution of Plants in Great Britain. His researches in this department of botanical science are chiefly contained in *Cybele Britannica*, 4 vols., London, 1847-59; and a supplement (not published), 1860. This superseded an earlier work, 'Geographical Distribution of British Plants,' printed for private circulation in 1832. In 1868-70 was published, 'Compendium of Cyb. Br.; and a supplement to the same in 1872. His ripest thoughts and latest researches on the same subject were published in 1873-4, in 2 vols., under the title, 'Topographical Botany.' In his own field of inquiry, Mr. Watson has no equal, and he has left his mark on British Botany for all time.

A work, entitled 'Southwold and its Vicinity,' by Robt. Wake, M.R.C.S.L., was published in 1839. The Flora of the neighbourhood is treated of in a short chapter of six pages. It adds but little to our knowledge of the rarer plants of the County. It supplies the earliest notice of *Crithmum maritimum*, and possibly of *Cyclamen hederifolium*, as he seems to indicate that Sowerby's plate was taken from a plant supplied by Mr. Wm. Hay, gardener to Lord Stradbroke.

In 1846 was published, in small folio, 'Specimens of Natural Grasses of West Suffolk,' by W. & H. Raynbird, of Hengrave. The work has been looked into, but no special use has been made of it for this Flora.

The next marked step in the progress of Suffolk Botany, was the publication in 1860 of the 'Flora of Suffolk.' Materials for a work of this kind had, through the labours of local and other botanists, been gradually accruing. Some of these had been placed on record in lists published in the *Phytologist*, old series, by Messrs. J. Townsend and W. L. Notcutt, and by T. W. Gissing in the New Series. Others were contributed by the twelve persons mentioned in the preface of the *Flora*, viz., Mr. R. Blackett, the Rev. E. N. Bloomfield (now Rector of Guestling, Sussex), Sir Charles J. F. Bunbury, Bart., Mrs. Carss, of Welnetham, Mr. Joseph Gedge, the Rev. J. S. Henslow, the Rev. S. Rickards (Rector of Stowlangtoft), the Rev. Henry Roberts, Mr. E. Skepper, Mr. D. Stock, the Rev. K. Trimmer (Vicar of St. George, Tombland, Norwich, Author of the *Flora of Norfolk*), and Dr. White. Some of the results of the late F. K. Eagle's researches in the North-West portion of the County, were also available for use.

It fell to the lot of the Rev. Professor Henslow and Mr. Edmund Skepper to place these materials in order, and to give them to the world. Before speaking of their work, let a word be said about its authors. John Stevens Henslow was born at Rochester, February 6th, 1796. His grandfather was Sir John Henslow, Chief Surveyor of the Navy, and his father, John Prentis Henslow, was in business. In October, 1814, he entered St. John's College, Cambridge, where he took a Wrangler's degree. He very early acquired a knowledge of natural history, especially of zoology, mineralogy, chemistry and geology. In 1822, he was elected Professor of Mineralogy, and in 1825, Professor of Botany. From this time until his death on May 16th, 1861, botany occupied the greatest part, though by no means the whole, of his attention. He published in 1836, 'The Principles of Descriptive and Physiological Botany,' a book which was long considered the best manual of structural and physiological botany in the English language.

The list of his books and papers on botany, other branches of natural history and various other subjects, occupy nearly seven pages at the end of his life by the Rev. L. Jenyns, his brother-in-law. In 1837, he was presented by the Crown to the living of Hitcham, where he resided for the remainder of his life. He took a great interest in the Ipswich Museum, which, from the time of his being elected President in 1850, was placed entirely under his direction, and received from

him continual accessions in every department of natural history. He also introduced the study of botany into the village school at Hitcham, and drew up and printed a list of Hitcham plants.

Edmund Skepper, son of Breame Skepper, was born October 20th, 1825, at Oulton Cottage in Suffolk, an appendage to the Oulton Hall estate, the property of his grandfather. Until he was fourteen his education was conducted at home, then for a few years he was a pupil to the Rev. — Clayton, at Bawburgh near Norwich. On leaving School he was apprenticed to a firm of Chemists at Norwich. For a short time he conducted a business at Harwich; and was afterwards appointed dispenser at the Suffolk General Hospital, Bury St. Edmunds. After some time he entered into partnership with Mr. J. V. Nunn, whose eldest daughter he married in August, 1855. From a child Mr. Skepper made natural history a study, and as he advanced in years made acquaintance with many branches of it. He also gave considerable attention to the theoretical study of Music and became an accomplished vocalist. In his general life he was, from his large store of information and powers of conversation, an interesting companion of genial temperament and largely amiable. We are indebted to the Rev. E. N. Bloomfield for the following details of his scientific life. 'I owe my acquaintance with the late Mr. E. Skepper to our common friend Professor Henslow. At the time I first corresponded with him in 1856, he was studying the Fungi and Diatomaceæ, and had a fair acquaintance with Phanerogamous Botany. In 1859 Mr. Skepper undertook, at the request of Professor Henslow, to prepare a catalogue of Suffolk plants from the lists, which had been sent to him by local collectors, as he found he would not be able to edit it himself. After the Flora was published I often corresponded with Mr. Skepper, and made some pleasant excursions with him both near Bury and Lowestoft. Those from Bury were generally to Tuddenham St. Mary, taking any interesting locality on our way, as Risby, Cavenham Severals, Icklingham or Barton Mills. Sometimes our principal object was Phanerogams, sometimes Cryptogams, (Mosses, Lichens, &c.) It was on a trip in search of the latter, Nov. 1st, 1860, that we met with the very rare moss *Cinclidium stygium*, in good quantity and with plenty of fruit in perfection. On a later occasion we found a patch of *Lycopodium clavatum*, the only instance, I believe, in which it has been found in Suffolk in recent days. Mr. Skepper's health was not

good and he was advised to be much in the open air. To give interest to his walks he would take up some special subject, and work the neighbourhood well, until he could find little novelty. Thus he took up Mosses and Lichens, Ornithology, Land and Fresh Water Molluscæ, Lepidoptera, &c., taking up each subject with energy and patient perseverance. For some years we tried to verify the localities, given in the Flora, near Bury and Lowestoft, with the result of confirming many of those given for rare plants and adding new ones. All our time together was occupied with Natural History, with one exception, when he took me to the Institute to show me the telescope he had assisted to mount. He was devotedly attached to his children, who were very young at the time of his death, June 2nd, 1867.' He was interred in the Cemetery at Bury St. Edmunds.

The Flora of Suffolk of 1860, while it exhibits the progress of botanical science in the County to that date, did not pretend to give a complete and exhaustive account of its native plants. It was published rather as an incentive to further research, and as a help to new labourers in the field. It seems to have occupied but a very short time in preparation; and the means of information placed at the command of its authors was comparatively small. It added nevertheless considerably to the knowledge of the local Flora, and laid a foundation for further efforts in the same direction. It is not possible in all cases to give the authorities for the new plants recorded in its pages. The following account is we believe substantially correct. A few plants are included here not mentioned in the Flora, though given on the authority of its authors. They are distinguished by an asterisk.

Rev. Professor Henslow—*Ranunculus Godronii**; *R. arvensis*; *Linum usitatissimum*; *Lonicera Caprifolium*; *Senecio crucifolius*; *Cuscuta Trifolii*; *Melampyrum arvense*; *Atriplex erecta*; *Rumex conglomeratus*; *Anacharis Alsinastrum*; *Allium vineale*, *Juncus compressus*; *Luzula multiflora**; *Carex præcox* and *glauca*, *vesicaria*, *Calamagrostis lanceolata*; *Festuca elatior*; *Triticum caninum*; *Polystichum angulare*.

E. Skepper—*Ranunculus Lenormandi**; *Papaver Lecoqii**; *Cardamine impatiens*; *Sisymbrium pannonicum**; *Lepidium Draba*; *Lavatera arborea**; *Trifolium incarnatum**; *Rosa systyla**; *Petroselinum segetum*; *Petasites fragrans**; *Erigeron canadensis**; *Hieracium vulgatum**; *Ery-*

thraea littoralis; *Orobanche Picridis**; *Euphorbia Lathyris*; *Ulmus montana*; *Potamogeton plantagineus* and *trichoides*; *Eriophorum latifolium*; *Avena strigosa*; *Poa compressa*; *Glyceria plicata*; *Cynosurus echinatus**; *Serrafalcus commutatus* and *arvensis*.

Henslow and Skepper—Plants mentioned in the Flora for which the particular authority has not been traced—*Raphanus maritimus*; *Hypericum dubium*; *Ulex nanus*; *Melilotus alba*; *Lotus tenuis* (erroneously called *L. angustissimus*); *L. major*; *Centranthus ruber*; *Lactuca saligna*; *Cuscuta Epilinum*; *Orobanche Caryophyllacea*; *Teucrium Scordium*; *Potamogeton prælongus*; *Carex strigosa*; *Alopecurus fulvus*; *Lolium italicum*.

Rev. Edwin Newson Bloomfield, late Senior Fellow of Clare Coll., Cambridge, now Rector of Guestling, Sussex—*Cardamine flexuosa**; *Anthemis tinctoria*, sp.*; *Doronicum plantagineum*, sp.*; *Crepis taraxacifolia*; *Orchis hircina*; *Scirpus Savii* and *monostachys*; *Festuca Myurus*. Mr. Bloomfield re-discovered *Eryngium campestre*, sp., in 1855.

Rev. Kirby Trimmer, late Vicar of St. George, Tombland, Norwich, Author of the Flora of Norfolk—*Mentha rotundifolia* and *mollissima*; *Statice Behen**.

F. K. Eagle, a botanist of the beginning of the present Century. His researches were chiefly made in the N.W. of the County. His attention was more especially given to Mosses and other Cryptogams.—*Sanguisorba officinalis*; *Gnaphalium luteo-album*; *Asperugo procumbens*; *Veronica Buxbaumii*; *Amaranthus Blitum*; *Atriplex littoralis*.

Sir T. Gage, Bart.—*Trifolium squarrosum**, E. Skepper's Herbarium.

Dr. White, late of Lavenham—*Hieracium maculatum*; *Orchis incarnata**; *Poa nemoralis*.

Rev. W. W. Newbould—*Sagina ciliata*; *Apera interrupta*; *Melilotus arvensis*; *Sclerochloa Borreri*.

The works bearing on the Botany of Suffolk since the publication of Henslow and Skepper's Flora are, First—'The Handbook of Suffolk,' by Dr. J. E. Taylor of Ipswich Museum, 1887. Reference is made in it to many of our rarer local species. Having previously received infor-

mation from Dr. Taylor about species found by him in the County, it has not been necessary to make special use of its information. A second volume, also published in 1887, is, 'Some Materials for the History of Wherstead by the Rev. F. Barham Zincke.' Appended to the History is a list of Wherstead plants by H. Haward, Esq., late of Pannington Hall, now of Red House, Little Blakenham. Most of the localities given have been found available for the Flora. This list has received considerable additions from Mr. Haward's hands, which, with the localities of plants beyond Wherstead, have been communicated to me. In many cases verified by specimens. A third volume is 'An Account of the Flowering Plants, Ferns and Allies of Harleston,' by the Rev. Francis William Galpin, M.A., F.L.S., 8vo., London, 1888. The district illustrated is a circle of eight miles radius round Harleston in Norfolk. More than one-third of this circle is in Suffolk. The whole area has been carefully examined by the author and the other members of the Harleston Botanical Club; and large use has been made of their researches.

As the Flora of Suffolk, now given to the public, was undertaken at the suggestion of the late Dr. Babington, and has been largely indebted to his kind counsel and assistance; affectionate mention of him in connection with this work seems to be called for. Churchill Babington, son of the Rev. Matthew Drake Babington, was born at Roeclyffe in Leicestershire, 11th March, 1821. He was chiefly educated by his father, and, whilst making progress in Classics, early developed a taste for Botany, Ornithology, and other Natural Sciences. He entered St. John's, Cambridge, in October, 1839. He graduated in 1843 as a Senior Optime and seventh in the first Class of the Classical Tripas. In March, 1840, he became a Fellow of his College, and soon after went to the South of Europe, where he made large botanical collections and studied the Antiquities of Italy. In 1865 he became Disney Professor of Archæology, and in the following year was appointed Rector of Cockfield. In 1879 he proceeded to D.D., and in the next year was elected Hon. Fellow of his College. The Birds of Suffolk was completed in 1886. His failing health prevented his undertaking, as he had proposed, the joint editorship of this Flora, though he continued his interest in and labour for it until the fatal illness, which removed him from his many labours, and deprived his admirers of a valued friend. His death took place on Saturday, January 12th, 1889, in his 68th year.

at Cockfield, where he was buried on the following Thursday. I deeply regret that the impress of his vigorous mind and hand are not more clearly seen in this work. It was his earnest desire to take an active part in preparing it for the press. Since his removal, many of his plants have been placed by his widow in the Editor's hands, who has been able to glean from them much useful information.

In an account of the Progress of Botany in Suffolk, mention should be made of those modern workers in the field, who have by their labours prepared the way for the publication of this work. First of these is Mrs. Casborne, daughter of Capel Lofft, Esq., of Troston Hall, and wife of the Rev. W. J. S. Casborne, of Newhouse, Pakenham. She died October, 1884. Her Herbarium of British plants, now at Troston Hall, is arranged in 25 fol. volumes. It contains most of our British flowering plants, and a considerable number of Cryptogams. It adds 25 species to the Suffolk Flora.

2nd. A collection of plants in 30 vols. 4to., in the Library of Stowlangtoft Hall, compiled about 1830 to 1834, is believed to be the work of the late Rev. W. Steggall, Vicar of Hunston, and aforetime Assistant Master in Bury St. Edmunds Grammar School. Some of its specimens were contributed by Dr. W. Bromfield, Author of the Flora of Hants., who has supplied specimens to some other Suffolk collections. It records 19 new Suffolk plants.

3rd. The late Sir Charles James Fox Bunbury, Bart., F.R.S., F.L.S., F.G.S., &c., furnished two general and four special lists of plants. His extensive Herbarium was not specially examined, as the lists from his own hands rendered this unnecessary. He was born at Messina in 1809, the son of Sir Henry Bunbury by his first wife, a niece of Charles James Fox. He left Trinity College, Cambridge, in 1837. He then went to study plants at the Cape. The results were published in Hooker's Journal of Botany, and in the 'Journal of a Residence at the Cape of Good Hope.' He also wrote on the Vegetation of Madeira, Brazil and Buenos Ayres, published in his last work, 'Botanical Fragments,' 1883. During his residence at Mildenhall, and subsequently at Barton, he took great interest in the botany of each place, and wrote full and careful catalogues of the plants he found. His valuable Herbarium he left to the University of Cambridge, with power to Lady

Bunbury to retain it for her life. He died 18th June, 1886. (C.B.) He contributed 10 new plants to the County Flora.

4th. Closely associated with Sir Charles by family ties and kindred tastes was Lady Blake, wife of Sir Henry Blake, Bart. Her extensive Herbarium of British plants is now in the Ipswich Museum. Many of its specimens were contributed by Sir C. Bunbury, Miss Harvey, and other local botanists, and may fairly be regarded as a duplicate of Sir Charles's British Collection. It adds 7 new plants to our Flora.

5th. An Herbarium kindly lent by the late Sir C. Bunbury, may be regarded as the result of the researches of the late Rev. S. Rickards, Rector of Stowlangtoft, and was compiled by a member of his family. It adds 3 plants to the Suffolk list.

5th. The late Mrs. French, of Woolpit, shortly before her death, gave her collection of British plants to the Editor. It has been specially useful, as being the only Herbarium in which the plants of the extreme part of South-West Suffolk are represented. Mrs. F. added 12 new plants to our list.

6th. The Herbarium of Miss Lathbury, of Bury St. Edmunds, contains a fair number of Suffolk plants from a wide area. It was compiled by that lady and other members of her family. Its earliest Suffolk record is 1832, its latest 1859. It records 5 new plants for Suffolk.

7th. A collection of 4 large volumes made by Mrs. Dunlap, of Bardwell Rectory, and a portfolio of original drawings by her sister, Mrs. Gibson, of Lound Rectory, contain a large proportion of Suffolk specimens, of which four are earliest records for the County.

8th. The Herbarium of Hitcham, compiled by the late Professor Henslow for the instruction of his school children, now in Ipswich Museum, and a parcel of plants gathered by those children, and kindly contributed by Professor C. C. Babington, have been found useful in the preparation of this work.

9th. Through the kindness of Mrs. Skepper, the Herbarium of her late husband has been twice examined. Many of its plants were added after the publication of the Flora of 1860.

10th. At Needham Market is a small British Herbarium compiled by Miss Jeffes of that town. A fair proportion of its plants have been collected in Suffolk. Some of these are earliest records.

11th. A number of original drawings of plants, chiefly from the neighbourhood of Oulton, executed by Mrs. McAubrey, have been twice examined and many records taken from them.

12th. In the Norwich Museum, under the care of the Norfolk and Norwich Naturalists' Society, is the Herbarium of Mr. J. D. Salmon, formerly of Thetford. Its date is 1835 to 1848. It has been kindly examined by the Rev. E. F. Linton. Nearly one-half of its Suffolk localities are new, but it adds no plants to the list.

13th. H. D. Geldart, Esq., of Norwich, has obligingly contributed a list of the Suffolk plants in his Herbarium, and considerably added to the localities for various species.

14th. A small collection of plants, in the Ipswich Museum, by Miss Manning, has been examined; also an anonymous portfolio, the best plants of which have been incorporated with Lady Blake's Herbarium.

15th. A small collection by Miss Turner, of Bradfield St. George Rectory, including some specimens from Mrs. Suttaby, was examined by the late Dr. Babington.

16th. A collection of plants by N. F. Hele, Esq., of Aldeburgh, contains several interesting species from his neighbourhood; among them a few, which were believed to be peculiar to the "Breck" district in the North-western part of the County.

Several small collections have helped to swell the Suffolk list. Among them, Euston plants by Lady Laura FitzRoy, kindly lent by the Hon. Canon Phipps; Woolverstone plants by Miss H. M. Sheppard, also Woodbridge and Felixstowe lists by Miss S. in Gardener's Chronicle: Suffolk plants by Mr. C. W. Peck, of Brockford and Christ's Coll., Cambridge. A valuable list of Felixstowe plants supplied to the late H. C. Watson, for his Topographical Botany, has been furnished anew by the Rev. W. H. Purchas, Vicar of Alstonfield, Staffordshire.

Several names are here omitted of those who have done most towards perfecting the Progress of Botanical Science in Suffolk. Their names will be found in the preface to this work, where some slight

acknowledgement is made of their hearty and generous efforts to give to the public a full and trustworthy account of the Flora of Suffolk. The frequent references to their names throughout the work will show how largely they have assisted in extending our knowledge of the County Botany.

A very ancient Record of Suffolk Botany has recently been brought to light through the investigations of our geologists. Buried for ages, it has been in part re-discovered, and its inscriptions, well nigh obliterated, are being gradually deciphered, and are giving to this present age a glimpse of the Flora of the past. The researches of the Authors of *The Fenland, past and present*, published in 1878, Impl. 8vo., furnish general information of the trees and other vegetable remains of a past age still preserved in our Fens. Information as to the remains of a Flora of an age, much farther removed from our time, is being placed in our hands by the geologists of the day. Remains of ancient plants have been recovered from various geological deposits, and in many cases the species have been identified, and their connection with the existing Flora indicated. A list of the ascertained plants of Ancient Suffolk is appended to this Flora. It is gathered from the papers of Messrs. Reid and Ridley, Prof. Prestwich, Dr. J. E. Taylor, and Mr. F. J. Bennett, in the *Memoirs of the Geological Survey*, *Geological Magazine*, and the *Records of the Norwich and Norfolk Natural History Society*. R. E. Leach, Esq., F.G.S., has also taken up this special branch of geological research, and has kindly furnished us with the results of his labours. With very few exceptions these species, of which remains have come down from the great Ice Age and that which succeeded it, still survive in the country; and, so far as their evidence seems to go, they bear witness to the permanence of species, and in no way countenance the development of one species from another. The latest light cast on the Flora of our County tells us that the species and forms, with which we are familiar, are identical with those which existed in ages immeasurably distant from that in which we now live. Though every individual plant has its own marked features, a family likeness is still preserved, and their mutual relation witnessed by those characteristics which unite them in groups or species. With an endless diversity in the individuals, there is a well-preserved unity in the groups, which is continued from age to age under the general laws of created life.

ADDITIONS AND CORRECTIONS.

- Page 15 line 2 for F.S.S. read F.L.S.
- „ 24 line 22 for appenina and *Appenine* read apennina and *Apennine*.
- „ 25 line 14 for F.F.L. read E.F.L.
- „ 27 line 11 add 4. Minsmere Marsh.
- „ 27 after line 20 add 4. Minsmere Marsh.
- „ 29 line 15 for without locality read 5. Felixstowe, C.B.
- „ 29 line 29 add Felixstowe, C.B.
- „ 32 six lines from bottom insert 4. Minsmere Marsh.
- „ 57 line 6 add Sizewell
- „ 63 line 21 add Sizewell.
- „ 68 after line 13 add 4. Sizewell.
- „ 73 line 5 for Seekford read Seckford.
- „ 75 line 14 dele ?
- „ 77 line 12 add a *flore pleno* form with largish petals from Ampton Park, Rev. A. L. Williams.
- „ 82 line 11 add Ampton, Rev. A. L. Williams.
- „ 84 line 15 add Sizewell.
- „ 84 line 28 add Sizewell.
- „ 85 line 18 add Sizewell.
- „ 97 line 13 add Sizewell.
- „ 109 line 13 add Sizewell.
- „ 117 lowest line enter here from p. 118, line 2, Barrow Bottom; Higham and Lakenheath, *Sk. ms.*
- „ 121 line 3 from bottom add Sizewell.
- „ 128 lines 8 and 9 from bottom transfer Gorleston, J. Priest in *Hb. Geld.* from District 2 to District 3.
- „ 132 after line 5 in *Fragaria elatior* add 5. Barking Wood, Miss Jeffes.
- „ 151 above line 9 from bottom insert Form *E. umbrosum*, Hauskn, District 4. In a fir plantation close to Eye, May, 1888, E. S. Marshall.
- „ 153 line 18 for *M. Spicatum* read *M. spicatum*.
- „ 162 line 10 for *Chrysoplenium* read *Chrysosplenium*.
- „ 164 line 5 from bottom for *ie* read *i.e.*
- „ 169 line 10 for No Cove read North Cove.
- „ 171 line 9 from bottom for *Lacenalii* read *Lachenalii*.

- Page 172 bottom line for *Æl. cynapium* read *Æl. Cynapium*.
- „ 175 line 10 for *Sativum* read *sativum*.
- „ 180 line 7 from bottom for *Sanguinea* read *sanguinea*.
- „ 190 line 3 *dele* Oulton, *McAub*.
- „ 198 line 20 *add* Honington.
- „ 209 line 8 after *B. tripartita*, *add* *Linn*.
- „ 212 line 13 for *c. nigres-cens* read *C. nigrescens*.
- „ 223 after line 27 *insert* 4. Minsmere Marsh,
- „ 230 bottom line *add* after *incana*. *Auct*.
- „ 231 line 1 *dele* *Auct*,
- „ 243 after line 11 *insert* 2. Polstead! *Mr. Simpson*, through *Rev. J. D. Gray*.
- „ 249 line 21 *add* Little Blakenham, *Haward*.
- „ 253 *insert* after line 2 *add*. *Note*—About a dozen plants of *Digitalis* in the Rectory Garden, Great Fakenham, in June, 1889, had each an enlarged terminal flower like a Canterbury Bell.
- „ 273 line 24 *add* (4.) between Hoxne and Eye, *E. S. Marshall*.
- „ 275 line 4 from bottom *add* Ampton, *Rev. A. L. Williams*.
- „ 303 line 26 for Henslow and Skepper read *D. Stock*.
- „ 330 line 14 *add* Honington.
- „ 335 line 22 *interchange* stops before and after Woods at Rushbrooke.
- „ 337 line 20 for *Pseuducorus* read *Pseudacorus*.
- „ 361 line 3 for *Zizi's* read *Ziz's*.
- „ 378 line from bottom *insert* Near Saxham, *E. S. Marshall*.
- „ 405 line 10. It is probable that there is here an erroneous transfer of *Dr. Goodenough's* locality for *F. uniglumis*. See preceding article.
- „ 419 line 19 for Henslow and Skepper read *Hb. Lathbury*.
- „ 425 bottom line for *Lycopodium* read *Lycopodium*.
- „ 434 line 2 from bottom for *Brachythecium* read *Brachythecium*.
- „ 435 line 1 *add* *Sw.* after *plumosum*.
- „ 435 *Note*—Another lacustrine deposit has been discovered at St. Cross, Southelmham. A paper by *Mr. Charles Chandler* has been read at Burlington House by *Mr. Clement Reid* on this deposit. *Mr. Reid* had from it 29 species of fossil seed. *Mr. R. E. Leach* has found from 15 to 18 kinds which have been sent to *Mr Reid* for examination and comparison.
- „ 439 line 7 for *Alliarea* read *Alliaria*.
- „ 441 line 18 *dele* *Stellaria* *add* „
- „ 441 line 8 from bottom *dele* *L* *add* „
- „ 443 line 11 from bottom for *Anthyllus* read *Anthyllis*.
- „ 446 line 27 for *suberistata* read *subcristata*.
- „ 447 line 10 from bottom for *Chrysoplenium* read *Chrysosplenium*.
- „ 447 line 12 from bottom for *Saxifrage* read *Saxifraga*.

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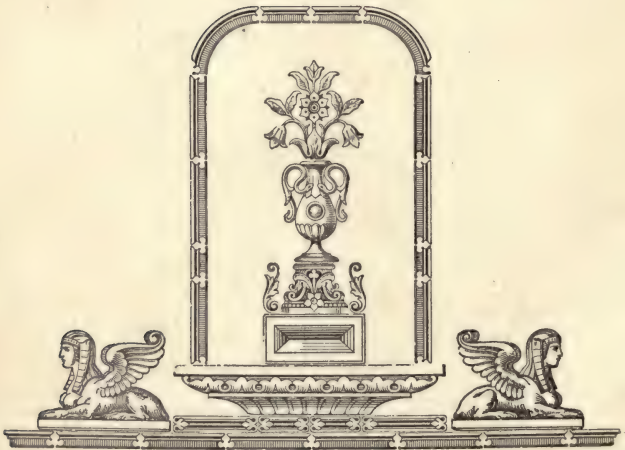
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